



system using a cDNA library as prey in the presence of the pPAR ligand. Also disclosed are cells that express the pPAR protein, a method for screening for drugs for insulin resistance, and preparing a medical composition for improving insulin resistance. The method of the invention is useful for screening for drugs that improve insulin resistance. The current sequence represents a human promoter sequence.

Sequence 1870 BP, 420 A; 530 C; 459 G; 461 T; 0 U; 0 Other;

100.0%; Score 1870; DB 10; Length 1870;  
Local Similarity 100.0%; Pred. No. 0;  
Matches 1870; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

1 ATCTGTGTCCTAGAAAGTACCAAGCAATCTACAGAGTCTGAAATTAAGTCTTCT 60
1 ATCTGTGTCCTAGAAAGTACCAAGCAATCTACAGAGTCTGAAATTAAGTCTTCT 60
61 AGTTCTAGATTTTCACTGATGTCCTGAGTGTGCTCTCTATGCTGAGTCTGAGT 120
61 AGTTCTAGATTTTCACTGATGTCCTGAGTGTGCTCTCTATGCTGAGTCTGAGT 120
121 GCAAAAGTGGCTCTCTGAGCTCTGAGTGTGATGATCTGATGATCTGATGATG 180
121 GCAAAAGTGGCTCTCTGAGCTCTGAGTGTGATGATCTGATGATCTGATGATG 180
121 GCAAAAGTGGCTCTCTGAGCTCTGAGTGTGATGATCTGATGATCTGATGATG 180
181 GGAATATGACTAGAGAAAGTTACATCCAGAGAGAGAGAGAGAGAGAGAGAG 240
181 GGAATATGACTAGAGAAAGTTACATCCAGAGAGAGAGAGAGAGAGAGAGAG 240
241 CATCTCTGCTATCTCTCTGAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
241 CATCTCTGCTATCTCTCTGAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
301 AAAAATTCTAGAGTCAAGAGTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
301 AAAAATTCTAGAGTCAAGAGTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
361 CTGGGAAAAATATCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
361 CTGGGAAAAATATCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
421 GGGTCTCAATCAGGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
421 GGGTCTCAATCAGGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
481 CAGAGATGAGCTGCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 540
481 CAGAGATGAGCTGCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 540
541 TTGCTCTGTGCGCCAGGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600
541 TTGCTCTGTGCGCCAGGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600
541 TTGCTCTGTGCGCCAGGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600
601 TCCCGGATTCAGAGCAATCTCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCT 660
601 TCCCGGATTCAGAGCAATCTCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCT 660
601 TCCCGGATTCAGAGCAATCTCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCT 660
661 GCCACACACCCAGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 720
661 GCCACACACCCAGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 720
661 GCCACACACCCAGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 720
721 AGTACAGTGGAGATCTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTC 780
721 AGTACAGTGGAGATCTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTC 780
781 CTGCTCAAGTCTCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 840
781 CTGCTCAAGTCTCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 840
841 TTGTATTTTATAGAGATGCGCTTTTGGCATTGTGGCATTGTGGCATTGTGGC 900
841 TTGTATTTTATAGAGATGCGCTTTTGGCATTGTGGCATTGTGGCATTGTGGC 900

```

```

QY 901 CCTCAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
DB 901 CCTCAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
QY 961 GGGCAGGCTGAGTACTCTCTTGTGCTGAGAGAGAGAGAGAGAGAGAGAGAG 1020
DB 961 GGGCAGGCTGAGTACTCTCTTGTGCTGAGAGAGAGAGAGAGAGAGAGAGAG 1020
QY 1021 CTCTACATGCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1080
DB 1021 CTCTACATGCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1080
QY 1081 CATCTCTCAATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140
DB 1081 CATCTCTCAATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140
QY 1141 TAACTCTTCCCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1200
DB 1141 TAACTCTTCCCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1200
QY 1201 AGCAACCAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1260
DB 1201 AGCAACCAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1260
QY 1261 TGAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1320
DB 1261 TGAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1320
QY 1321 GGGGCCCAAGAGTCTGAGATCTAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1380
DB 1321 GGGGCCCAAGAGTCTGAGATCTAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1380
QY 1381 TCTGTTTATGCACTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1440
DB 1381 TCTGTTTATGCACTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1440
QY 1441 CCACCTTAAATCCATCTTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1500
DB 1441 CCACCTTAAATCCATCTTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1500
QY 1501 TGTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1560
DB 1501 TGTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1560
QY 1561 CTCAACCCATCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1620
DB 1561 CTCAACCCATCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1620
QY 1621 CCTCCCGCTCATATCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1680
DB 1621 CCTCCCGCTCATATCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1680
QY 1681 CAAAGGCGCGGTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1740
DB 1681 CAAAGGCGCGGTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1740
QY 1741 ACAACCCGCGCGGTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1800
DB 1741 ACAACCCGCGCGGTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1800
QY 1801 GGGGCGCGCTTAAACCAATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1860
DB 1801 GGGGCGCGCTTAAACCAATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1860
QY 1861 TCTTCTGAG 1870
DB 1861 TCTTCTGAG 1870

```

RESULT 2  
ABD32700/c  
ID ABD32700 standard; DNA; 33362 BP.  
XX



evaluating the effect of a candidate carcinoma drug; (v) for diagnosing carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip; (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for determining Carcinoma Associated (CA) gene copy number. In addition, the CA genes are useful as DNA vaccines and the CAP are useful as markers of carcinoma including lymphoma. The present sequence is one such CA coding sequence. Note: This patent is an equivalent to basic patent US2002182586A1, for which no sequence data was published

Sequence 31116 BP; 7214 A; 8217 C; 7722 G; 7963 T; 0 U; 0 Other;

Query Match 17.4%; Score 324.8; DB 11; Length 31116;  
Local Similarity 77.5%; Pred. No. 3.7e-73;  
Ches 409; Conservative 0; Mismatches 112; Indels 7; Gaps 1;

502 TTTTCTTTTCTTTCTTTCTTTTGTGAGACAGAGCTGTGCTGTGCGCCAGGCTG 561  
13037 TTTTCTTTTCTTTTGTGATGTTTGTGAGACAGAGCTGTGCTGTGCGCCAGGATG 13096  
562 AGTCAGTGGCAGATCTCTGCCCAGTCAACCTCTGCTCCCGATTCAGGATTC 621  
13097 AATGACGTGTGTGATCTTGCGCTCAGACAGACCTGCTCCAGGTTCAAGTATTC 13156  
622 CTGCTCAGCTCTCCCAAGTACGTGGGATTAAGGTGACAGCCCAACCCAGC----- 675  
13157 CTGCTCAGCTCTCTGAGTACGTGGGATTAAGGTGACAGCCCAACCCAGCTAATTT 13216  
676 -TTTTTTTATTTTGAAGACAGAGTCTGCTGCTGCAACCCAGGTTGAGTACAGTGCATG 734  
13217 TTTCTTTTCTTTTGTGAGTACAGTCTGCTGCTGCAACCCAGGTTGAGTACAGTGCATG 13276  
735 ATCTCAGTTCAGTCCAGACCTCCACCTCCGCGGTTCAAGCAATTCCTGCTCAGTCTCC 794  
13277 ATCTCAGTTCAGTCCAGACCTCCACCTCCGCGGTTCAAGCAATTCCTGCTCAGTCTCC 13336  
795 TGAGTACGTACGATTAAGACAGTACCTCCAGTTCAGTATTTTGTGATTTTAAATTA 854  
13337 CGAGTACGTACGATTAAGACAGTACCTCCAGTTCAGTATTTTGTGATTTTAAATTA 13396  
855 GAGATCGCTTTTGGCAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 914  
13397 GAGATCGCTTTTGGCAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 13456  
915 CTGGCTTGTGCTCCCAAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 974  
13457 CTGGCTTGTGCTCCCAAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 13516  
975 CTACTCTTACGTCTCTGAGAAAGATGCGGCTCAGAGAAATCAAGCT 1022  
13517 TTGCTTTCTTTTCTGAGACAGTCTCTCTGCTGTCACCAAGCT 13564

AD213255; standard; DNA; 31279 BP.  
AD213255 standard; DNA; 31279 BP.

16-JUN-2005 (first entry)

Human cancer-associated genomic DNA #63.  
Diagnosis; DNA microarray; microarray; biochip; cancer; neoplasm;  
cytostatic; gene; ds.

Homo sapiens.

WO2005031001-A2.

07-APR-2005.

23-SEP-2004; 2004WO-US031617.

XX 23-SEP-2003; 2003US-00669920.  
PR (CHIR ) CHIRON CORP.  
XX Morris DW, Malandro MS;  
XX WPI, 2005-273395/28.  
XX Nucleic acid array useful for detecting cancer associated nucleic acid,  
XX comprises two or more nucleic acid probes.  
XX Disclosure; SEQ ID NO 775; 198pp; English.  
PS The invention relates to a nucleic acid array for detecting a cancer  
CC associated (CA) nucleic acid, comprising two or more nucleic acid probes.  
CC The invention also relates to a peptide array comprising two or more  
CC isolated polypeptides encoded by a CA nucleic acid sequence, a compound  
CC that binds to a polypeptide, an isolated antibody or its fragment which  
CC binds to a polypeptide, which is prepared by immunizing a host animal  
CC with a composition comprising the polypeptide or its antigen binding  
CC fragment and collecting cells from the host expressing antibodies against  
CC the antigen or its antigen binding fragment, a composition comprising the  
CC antibody and a carrier, a method of screening for anticancer activity, a  
CC method of detecting a CA nucleic acid, a method of diagnosing cancer, a  
CC method of treating cancer and a method of inhibiting expression of a CA  
CC nucleic acid in a cell. The CA nucleic acids are useful for detecting CA  
CC nucleic acids. The antibody is useful for detecting the presence or  
CC absence of cancer cells in an individual which involves contacting cells  
CC from the individual with the antibody and detecting a complex of a CA  
CC protein from the cancer cells and the antibody, where the detection of  
CC the complex correlates with the presence of cancer cells in the  
CC individual. The composition is useful for inhibiting growth of cancer  
CC cells in an individual or for delivering a therapeutic agent to cancer  
CC cells in an individual. The invention is also useful for diagnosing  
CC cancer, for treating cancer and for inhibiting expression of a CA gene in  
CC a cell. This sequence represents human cancer-associated genomic DNA of  
CC the invention.  
XX  
XX Sequence 31279 BP; 7246 A; 8268 C; 7755 G; 8010 T; 0 U; 0 Other;  
SQ  
Query Match 17.4%; Score 324.8; DB 14; Length 31279;  
Best Local Similarity 77.5%; Pred. No. 3.7e-73;  
Matches 409; Conservative 0; Mismatches 112; Indels 7; Gaps 1;  
QY 502 TTTTCTTTTCTTTTCTTTTGTGAGACAGAGCTGTGCTGTGCGCCAGGCTG 561  
13193 TTTTCTTTTCTTTTGTATGTTTGTGAGACAGAGCTGTGCTGTGCGCCAGGATG 13252  
QY 562 AGTCAGTGGCAGATCTCTGCCCAGTCAACCTCTGCTCCCGATTCAGGATTC 621  
13253 AATGACGTGTGTGATCTTGCGCTCAGACAGACCTGCTCCAGGTTCAAGTATTC 13312  
DB 622 CTGCTCAGCTCTCCCAAGTACGTGGGATTAAGGTGACAGCCCAACCCAGC----- 675  
13313 CTGCTCAGCTCTCTGAGTACGTGGGATTAAGGTGACAGCCCAACCCAGCTAATTT 13372  
QY 676 -TTTTTTTATTTTGAAGACAGAGTCTGCTGCTGCAACCCAGGTTGAGTACAGTGCATG 734  
13373 TTTCTTTTCTTTTGTGAGTACAGTCTGCTGCTGCAACCCAGGTTGAGTACAGTGCATG 13432  
DB 735 ATCTCAGTTCAGTCCAGACCTCCACCTCCGCGGTTCAAGCAATTCCTGCTCAGTCTCC 794  
13433 ATCTCAGTTCAGTCCAGACCTCCACCTCCGCGGTTCAAGCAATTCCTGCTCAGTCTCC 13492  
QY 795 TGAGTACGTACGATTAAGACAGTACCTCCAGTTCAGTATTTTGTGATTTTAAATTA 854  
13493 CGAGTACGTACGATTAAGACAGTACCTCCAGTTCAGTATTTTGTGATTTTAAATTA 13552  
DB 855 GAGATCGCTTTTGGCAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 914  
13553 GAGATCGCTTTTGGCAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 13612



915 CTGGCCCTTGGCCCTCCAAAGTCTGGAGTTCAGGCGCTGAGCCATGCGCCGAGGCTGAG 974  
 13613 CCGTCTTGGCTTCTCTAAAGTGTGGATTAAGGTGTGAGCCACCGCCGCGCTGAGC 13672  
 975 CTACTCTTTAGTCTCTGGAAGCTGGCGCTCAGAGAAATCAACGCT 1022  
 13673 TTGCTTTCTTTTCTTTTCTGAGACAGTCTCTTCTGTCAACCAGGCT 13720

117 5  
 :2540/C  
 ADA02540 standard; DNA; 58822 BP.

ADA02540;

06-NOV-2003 (first entry)

Human TCOF1 carcinoma associated gene, SEQ ID NO:1058.

Human; carcinoma associated; oncogene; carcinoma; cancer; breast; prostate; lymphoma; leukemia; cytostatic; gene therapy; drug screening; gene; ds.

Homo sapiens.

MO2003057146-A2.

17-JUL-2003.

26-DEC-2002; 2002MO-US041414.

26-DEC-2001; 2001US-00035632.

(SAGR-) SAGRES DISCOVERY.

Morris DW;

WPI; 2003-587068/55.

New recombinant nucleic acid encoding carcinoma associated protein, useful for preparing compositions for treating carcinomas.

Claim 1, SEQ ID NO 1058; 245bp; English.

The invention relates to recombinant carcinoma associated (CA) nucleic acid sequences from mouse and human (ADA01482-ADA03094), and to recombinant carcinoma associated expression vectors and host cells comprising a CA nucleic acid, a polypeptide (especially an antibody) that specifically binds to the protein, and a biochip comprising a CA nucleic acid or fragments thereof. The sequences of the invention were identified using oncogenic retroviruses, which insert into the genome of the host organism at random. Many of these do not carry transduced host oncogenes or pathogenic trans-acting viral genes, meaning that cancer incidence is a direct consequence of the effects of proviral integration into host protooncogenes. The CA nucleic acid sequences can be used to diagnose carcinoma (especially breast cancer, prostate cancer, lymphoma or leukemia) or a propensity to carcinoma by determination of the sequence of a CA gene, or by determination of CA gene expression in particular tissues. CA nucleic acids, proteins and antibodies are also useful as therapeutic agents and in screening and evaluating drug candidates. The present sequence represents a specifically claimed human CA nucleic acid sequence of the invention. Note: The complete sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [http://wipo.int/pub/published\\_pct\\_sequences](http://wipo.int/pub/published_pct_sequences).

Sequence 58822 BP; 14199 A; 14875 C; 15625 G; 13656 T; 0 U; 467 Other;

17.4%; Score 324.8; DB 9; Length 58822;  
 nt Local Similarity 77.5%; Pred. 4.8e-73;  
 ntches 409; Conservative 0; Mismatches 112; Indels 7; Gaps 1;

QY 502 TTTTCTTTTCTTTCTTTCTTTCTTTTGTAGACAGAGTCTTGCTGTGCGCCAGGCTGG 561  
 DB 58246 TTTTCTTTTCTTTCTTTCTTTCTTTTGTAGACAGAGTCTTGCTGTGCGCCAGGCTGG 58187  
 QY 562 AGTGAAGTGAATGATCTCTGAGCCATGCAACCTCTGCGGATTCAGAGGATTTCTC 621  
 DB 58186 AATGCAAGTGTGATCTTGGCTTCAGAGCAACCTCTGCGGATTCAGAGGATTTCTC 58127  
 QY 622 CTGCTCAGCTCCCAAGTACGTGGAGTTACAGTGCACGACCAACCCAGC----- 675  
 DB 58126 CTGCTCAGCTCCCAAGTACGTGGAGTTACAGTGCACGACCAACCCAGC----- 58067  
 QY 676 TTTTCTTTTATTTTGGAGACAGAGTCTTGCTGTGCGGATTCAGAGGATTTCTC 734  
 DB 58066 TTTTCTTTTATTTTGGAGACAGAGTCTTGCTGTGCGGATTCAGAGGATTTCTC 58007  
 QY 735 ATCTCAGTTCAGTGCAGCTCCCAAGTACGTGGAGTTACAGTGCACGACCAACCCAGC 794  
 DB 58006 ATCTCAGTTCAGTGCAGCTCCCAAGTACGTGGAGTTACAGTGCACGACCAACCCAGC 57947  
 QY 795 TGAAGTACGAGTTCAGAGTGCACCTCCAGCTTCAAGTAAATTTTGTATTTTATGTA 854  
 DB 57946 CGAGTACGAGTTCAGAGTGCACCTCCAGCTTCAAGTAAATTTTGTATTTTATGTA 57887  
 QY 855 GAGATGCGCTTTTGGCAGTGTGCGCAGTGTGGAACCCGAGCTCAGGTGATCCG 914  
 DB 57886 GAGACAGGCTTTCACACGTTGCGCAGGCTGTCTGAACTCTGACCTCAGAGTATCTA 57827  
 QY 915 CTGGCCCTTGGCCCTCCAAAGTCTGGAGTTCAGGCGCTGAGCCATGCGCCGAGGCTGAG 974  
 DB 57826 CCGTCTTGGCTTCTCTAAAGTGTGGATTAAGGTGTGAGCCACCGCCGCGCTGAGC 57767  
 QY 975 CTACTCTTTAGTCTCTGGAAGCTGGCGCTCAGAGAAATCAACGCT 1022  
 DB 57766 TTGCTTTCTTTTCTTTTCTGAGACAGTCTCTTGTGTCAACCAGGCT 57719

RESULT 6  
 ADB72278/C  
 ID ADB72278 standard; DNA; 58822 BP.

XX ADB72278;

XX 04-DEC-2003 (first entry)

XX Human TCOF1 gene.

KW human; ds; cytostatic; gene therapy; vaccine; carcinoma; lymphomas;  
 KW cancer; neoplasm; adenocarcinoma; sarcoma; gene.

XX Homo sapiens.

XX PN MO2003008583-A2.

XX 30-JAN-2003.

XX 26-DEC-2001; 2001MO-US051291.

XX 02-MAR-2001; 2001US-00796586.

XX 23-OCT-2001; 2001US-00004113.

XX 08-NOV-2001; 2001US-00052482.

XX 30-NOV-2001; 2001US-00997722.

XX 20-DEC-2001; 2001US-00034650.

XX (SAGR-) SAGRES DISCOVERY.

XX Morris DW, Engelhard EK;

XX WPI; 2003-239337/23.

XX New recombinant nucleic acid, useful for treating carcinomas, lymphomas,  
 PT cancers, neoplasm, adenocarcinoma, or sarcomas.



AAK78433;

07-NOV-2001 (first entry)

Human Immune/haematopoietic antigen genomic sequence SEQ ID NO:33245.

Human; Immune; haematopoietic; Immune/haematopoietic antigen; cancer; cytostatic; gene therapy; vaccine; metastasis; ds.

Homo sapiens.

MO200157182-A2.

09-AUG-2001.

17-JAN-2001; 2001MO-US001354.

31-JAN-2000; 2000US-0179065P.  
04-FEB-2000; 2000US-0180628P.  
24-FEB-2000; 2000US-0184664P.  
02-MAR-2000; 2000US-0186350P.  
16-MAR-2000; 2000US-0189874P.  
17-MAR-2000; 2000US-0190076P.  
18-APR-2000; 2000US-0198123P.  
19-MAY-2000; 2000US-0205515P.  
07-JUN-2000; 2000US-0209467P.  
28-JUN-2000; 2000US-0214886P.  
30-JUN-2000; 2000US-0215135P.  
07-JUL-2000; 2000US-0216647P.  
07-JUL-2000; 2000US-0216880P.  
11-JUL-2000; 2000US-0217487P.  
14-JUL-2000; 2000US-0218290P.  
26-JUL-2000; 2000US-0220963P.  
26-JUL-2000; 2000US-0220964P.  
14-AUG-2000; 2000US-0224518P.  
14-AUG-2000; 2000US-0224519P.  
14-AUG-2000; 2000US-0225213P.  
14-AUG-2000; 2000US-0225214P.  
14-AUG-2000; 2000US-0225266P.  
14-AUG-2000; 2000US-0225267P.  
14-AUG-2000; 2000US-0225267P.  
14-AUG-2000; 2000US-0225270P.  
14-AUG-2000; 2000US-0225447P.  
14-AUG-2000; 2000US-0225757P.  
14-AUG-2000; 2000US-0225758P.  
14-AUG-2000; 2000US-0225759P.  
16-AUG-2000; 2000US-0226279P.  
22-AUG-2000; 2000US-0226681P.  
22-AUG-2000; 2000US-0226686P.  
22-AUG-2000; 2000US-0227182P.  
23-AUG-2000; 2000US-0227009P.  
30-AUG-2000; 2000US-0228924P.  
01-SEP-2000; 2000US-0229287P.  
01-SEP-2000; 2000US-0229343P.  
01-SEP-2000; 2000US-0229344P.  
01-SEP-2000; 2000US-0229345P.  
05-SEP-2000; 2000US-0229509P.  
05-SEP-2000; 2000US-0229513P.  
06-SEP-2000; 2000US-0230437P.  
06-SEP-2000; 2000US-0230438P.  
08-SEP-2000; 2000US-0231242P.  
08-SEP-2000; 2000US-0231243P.  
08-SEP-2000; 2000US-0231244P.  
08-SEP-2000; 2000US-0231413P.  
08-SEP-2000; 2000US-0231414P.  
08-SEP-2000; 2000US-0232080P.  
08-SEP-2000; 2000US-0232081P.  
12-SEP-2000; 2000US-0231968P.  
14-SEP-2000; 2000US-0232387P.  
14-SEP-2000; 2000US-0232388P.  
14-SEP-2000; 2000US-0232399P.

PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234977P.  
PR 25-SEP-2000; 2000US-0234988P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239335P.  
PR 13-OCT-2000; 2000US-0239337P.  
PR 20-OCT-2000; 2000US-0240360P.  
PR 20-OCT-2000; 2000US-0241212P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.



	PR	17-NOV-2000;	2000US-0249245P.
	PR	17-NOV-2000;	2000US-0249264P.
	PR	17-NOV-2000;	2000US-0249265P.
	PR	17-NOV-2000;	2000US-0249297P.
	PR	17-NOV-2000;	2000US-0249299P.
	PR	17-NOV-2000;	2000US-0249300P.
	PR	01-DEC-2000;	2000US-0250160P.
	PR	01-DEC-2000;	2000US-0250391P.
	PR	05-DEC-2000;	2000US-0251030P.
	PR	05-DEC-2000;	2000US-0251888P.
	PR	05-DEC-2000;	2000US-0256719P.
	PR	06-DEC-2000;	2000US-0251719P.
	PR	08-DEC-2000;	2000US-0251856P.
	PR	08-DEC-2000;	2000US-0251868P.
	PR	08-DEC-2000;	2000US-0251869P.
	PR	08-DEC-2000;	2000US-0251899P.
	PR	11-DEC-2000;	2000US-0254097P.
	PR	05-JAN-2001;	2001US-0259678P.
	XX	(HUMA-) HUMAN GENOME SCI INC.	
	XX	Rosen CA, Barash SC, Ruben SM;	
	XX	WPI; 2001-483426/52.	
PT	Nucleic acids encoding human immune/hematopoietic antigen polypeptides,		
PT	useful for preventing, diagnosing and/or treating cancers and metastasis.		
PS	Disclosure; SEQ ID NO 26354; 3071bp + Sequence Listing; English.		
CC	AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)		
CC	amino acid sequences given in AAM82170 to AAM91921. (I) have cytosolic		
CC	activity, and can be used in gene therapy and vaccine production. (I)		
CC	proteins and polynucleotides may be used in the prevention, diagnosis and		
CC	treatment of diseases associated with inappropriate (I) expression. For		
CC	example, they may be used to treat disorders associated with decreased		
CC	expression by rectifying mutations or deletions in a patient's genome		
CC	that affect the activity of (I) by expressing inactive proteins or to		
CC	supplement the patients own production of (I). Additionally, (I)		
CC	polynucleotides may be used to produce the secreted (I), by inserting the		
CC	nucleic acids into a host cell and culturing the cell to express the		
CC	protein. (I) proteins and polynucleotides may be used to prevent,		
CC	diagnose and treat immune/hematopoietic-related diseases, especially		
CC	cancers and cancer metastases of hematopoietic-derived cells. AAK64703		
CC	to AAK87694 represent human immune/hematopoietic antigen genomic		
CC	sequences from the present invention. AAK54942 to AAK54950 and AAM82169		
CC	represent sequences used in the exemplification of the present invention		
XX	Sequence 24934 BP; 7325 A; 4578 C; 4828 G; 8203 T; 0 U; 0 Other;		
DQ	Query Match	17.3%; Score 323.6; DB 4; Length 24934;	
	Best Local Similarity	81.2%; Pred. No. 76-73;	
	Matches 401; Conservative 0; Mismatches 89; Indels 4; Gaps 2;		
DQ	488 TGAGCTGCTGCCTTTTCTTTTTTCTTTTCTTTTCTTTTGTGAACAGAGCTTGCTCT	547	
DQ	18989 TAAGGAGCAGTAGTAATTCCTTTTGGTTTGTCTTTTGTGAACAGAGCTTGCTCT	18930	
DQ	548 GTTGCCCAAGCTGGAATGCGAATCATCTCTGCCCATCTGCACCTTCCCGGA	607	
DQ	18929 GTTGCCCAAGCTGGAATGCGAATCATCTCTGCCCATCTGCACCTTCCCGGA	18870	
DQ	608 TTCAAGCGATTCTCCGCTCCAGCTCCCAAGAGTGGAGTTAAGAGTCAGCCACA	667	
DQ	18869 TTCAAGCGATTCTCCGCTCCAGCTCCCAAGAGTGGAGTTAAGAGTCAGCCACA	18810	
DQ	668 CACCACACT-TTTTATTTTGAAGACAGACTTTCCTCTGCACCCAGCTGAGTAC	725	
DQ	18809 CGCCAGCTAATTTTTTTTTTTTGAATGAGTCTGCTCTGCACCCAGCTGAGTAC	18750	
DQ	726 AGTGGCATGATCTCAATTCACTGCACTTCCGAGTTCAAGCAATTTCTCTGCC	785	

18749 AAGGGGATGATCTGGCTCACTGCAAGCTCGCTCCCGGGTTGACACCAATTCCTCTGCC 18690

786 TAAATCTCTGATGATAGCTAGATTAACAAATGACACTCCACGTTACAGCTAAATTTT--G 843

18689 TCAGGCTCTCTGATGATGCTGGGACTACAGGCTGTCCACCAATGCCCCGGCTAAATTTTTTG 18630

844 TATTTTATGATAGATGAGCTTTTGGCATGTTGGCCATGCTAGTCTGGAACCCCGACCT 903

18629 TGTTTTATGATAGACAGAGGTTTACCAATGTTACCGAGATGAGTCTGATCTCTACCT 18570

904 CAGTGATCCGCTGAGCTTTGGCTTCCCAAAATGCTGGAATTGCAAGCTGAGCCATCGCG 963

18569 CAGTGATCTGCTGCTGCTTGGCTCCCAAAATGCTGGAATTACAGGCTGAGCCACCGCG 18510

964 CCAAGCTCTGAGCTA 977

18509 CCCAGCCACACCCA 18496

18710  
1967/C  
AAZ86967 standard; DNA; 162450 BP.

AAZ86967;

16-MAY-2000 (first entry)

Retinoblastoma binding protein-7 genomic DNA sequence.

RBP-7; retinoblastoma binding protein-7; abnormal cell proliferation; diagnosis; therapy; cell differentiation; thyroid hyperplasia; psoriasis; benign prostatic hypertrophy; cancer; sarcoma; neoplasm; leukaemia; lymphoma; ds.

Homo sapiens.

MO200000607-A1.

06-JAN-2000.

30-JUN-1999; 99MO-IB001242.

30-JUN-1998; 98US-009131SP.

10-DEC-1998; 98US-0111909P.

(GEST ) GENSET.

Bougueleret L;

WPI; 2000-117170/10.

Novel nucleic acid and polymorphic markers used for diagnosis of diseases, especially those involving abnormal cell proliferation and differentiation.

Claim 1; Page 118-163; 223pp; English.

This sequence represents the retinoblastoma binding protein-7 (RBP-7) genomic sequence of the invention. The RBP-7 coding sequence and regulatory sequences are useful for the recombinant production of the protein and for expressing heterologous nucleic acids. Primers and probes derived from the RBP-7 nucleotide sequence (e.g. AAZ87035-287099) are useful for DNA amplification and detection methods. RBP-7 biallelic markers (see AAZ86993-287034) are useful for diagnosis of disease related to alteration in the regulation or in the coding regions of the RBP-7 gene and for prognosis/diagnosis of an eventual treatment with therapeutic agents, especially agents acting on pathologies involving abnormal cell proliferation and/or differentiation, these include thyroid hyperplasia, psoriasis, benign prostatic hypertrophy, cancers, including breast cancer, sarcomas and other neoplasms, bladder cancer, colon cancer, lung cancer, prostate cancer, various leukaemias, and lymphomas. RBP-7 antibodies are useful as diagnostic agents

[illegible]



Thu Jun 22 14:24:00 2006

16-MAR-2000; 2000US-0189874P.  
17-MAR-2000; 2000US-0190076P.  
18-APR-2000; 2000US-0198133P.  
19-MAY-2000; 2000US-0205515P.  
07-JUN-2000; 2000US-0209467P.  
28-JUN-2000; 2000US-0214886P.  
30-JUN-2000; 2000US-0215135P.  
07-JUL-2000; 2000US-0216647P.  
07-JUL-2000; 2000US-0216880P.  
11-JUL-2000; 2000US-0217487P.  
11-JUL-2000; 2000US-0217496P.  
14-JUL-2000; 2000US-0218290P.  
26-JUL-2000; 2000US-0220963P.  
26-JUL-2000; 2000US-0220964P.  
14-AUG-2000; 2000US-0224518P.  
14-AUG-2000; 2000US-0224519P.  
14-AUG-2000; 2000US-0225213P.  
14-AUG-2000; 2000US-0225214P.  
14-AUG-2000; 2000US-0225266P.  
14-AUG-2000; 2000US-0225267P.  
14-AUG-2000; 2000US-0225268P.  
14-AUG-2000; 2000US-0225270P.  
14-AUG-2000; 2000US-0225447P.  
14-AUG-2000; 2000US-0225757P.  
14-AUG-2000; 2000US-0225758P.  
14-AUG-2000; 2000US-0225759P.  
18-AUG-2000; 2000US-0226279P.  
22-AUG-2000; 2000US-0226681P.  
22-AUG-2000; 2000US-0226686P.  
22-AUG-2000; 2000US-0227182P.  
23-AUG-2000; 2000US-0227009P.  
30-AUG-2000; 2000US-0228924P.  
01-SEP-2000; 2000US-0229287P.  
01-SEP-2000; 2000US-0229343P.  
01-SEP-2000; 2000US-0229344P.  
01-SEP-2000; 2000US-0229345P.  
05-SEP-2000; 2000US-0229509P.  
06-SEP-2000; 2000US-0230437P.  
06-SEP-2000; 2000US-0230438P.  
08-SEP-2000; 2000US-0231242P.  
08-SEP-2000; 2000US-0231243P.  
08-SEP-2000; 2000US-0231244P.  
08-SEP-2000; 2000US-0231413P.  
08-SEP-2000; 2000US-0231414P.  
08-SEP-2000; 2000US-0232080P.  
08-SEP-2000; 2000US-0232081P.  
12-SEP-2000; 2000US-0231968P.  
14-SEP-2000; 2000US-0232397P.  
14-SEP-2000; 2000US-0232398P.  
14-SEP-2000; 2000US-0232399P.  
14-SEP-2000; 2000US-0232400P.  
14-SEP-2000; 2000US-0232401P.  
14-SEP-2000; 2000US-0233063P.  
14-SEP-2000; 2000US-0233064P.  
21-SEP-2000; 2000US-0234223P.  
21-SEP-2000; 2000US-0234274P.  
25-SEP-2000; 2000US-0234997P.  
25-SEP-2000; 2000US-0234998P.  
26-SEP-2000; 2000US-0235484P.  
27-SEP-2000; 2000US-0235834P.  
27-SEP-2000; 2000US-0236337P.  
29-SEP-2000; 2000US-0236357P.  
29-SEP-2000; 2000US-0236368P.  
29-SEP-2000; 2000US-0236369P.  
29-SEP-2000; 2000US-0236370P.  
02-OCT-2000; 2000US-0236802P.  
02-OCT-2000; 2000US-0237033P.  
02-OCT-2000; 2000US-0237038P.  
02-OCT-2000; 2000US-0237039P.  
02-OCT-2000; 2000US-0237040P.  
13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241846P.  
PR 20-OCT-2000; 2000US-0242212P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249266P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 01-DEC-2000; 2000US-0251160P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0251799P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251566P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251899P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
(HUMA-) HUMAN GENOME SCI INC.  
PA Rosen CA, Barash SC, Ruben SM;  
PI WPI, 2001-541565/60.  
XX Nucleic acids encoding 3224 human nervous system antigen polypeptides,  
XX useful for preventing, diagnosing and/or treating nervous system cancers  
XX and metastases.  
PS Disclosure; SEQ ID NO 11292; 1701pp + Sequence Listing; English.  
XX The invention relates to novel genes (ABA11004-ABA21534) and proteins



1, T 13  
799/c  
AAS32799 Standard; DNA; 4957 BP.

17-DEC-2001 (first entry)

Human; endocrine antigen; ds; cytostatic; antifertility; antidiabetic; thyroid-active; adrenal-active; androgenic; gastric; gene therapy; antisense-therapy; antibody; endocrine disorder; hormone imbalance; reproductive disorder; endocrine cancer; pancreatic disorder; diabetes mellitus; adrenal gland disorder; hirsutism; thyroid disorder; hyperthyroidism; hypothyroidism; vanishing testes syndrome.

MO200155319-A2.

17-JAN-2001; 2001WO-US001335.

01-SEP-2000	2000US-0190565P
03-SEP-2000	2000US-0180658P
04-SEP-2000	2000US-0186530P
24-SEP-2000	2000US-0184664P
02-MAR-2000	2000US-0186735P
16-MAR-2000	2000US-0189847P
17-MAR-2000	2000US-0190076P
18-MAR-2000	2000US-0198133P
09-MAY-2000	2000US-0205515P
07-JUN-2000	2000US-0209467P
28-JUN-2000	2000US-0214886P
30-JUN-2000	2000US-0215135P
07-JUL-2000	2000US-0216647P
07-JUL-2000	2000US-0218880P
11-JUL-2000	2000US-0217487P
11-JUL-2000	2000US-0217466P
14-JUL-2000	2000US-0218230P
14-JUL-2000	2000US-0219633P
26-JUL-2000	2000US-0220964P
14-AUG-2000	2000US-0224518P
14-AUG-2000	2000US-0224519P
14-AUG-2000	2000US-0225123P
14-AUG-2000	2000US-0225214P
14-AUG-2000	2000US-0225266P
14-AUG-2000	2000US-0225267P
14-AUG-2000	2000US-0225286P
14-AUG-2000	2000US-0225270P
14-AUG-2000	2000US-0225447P
14-AUG-2000	2000US-0225477P
14-AUG-2000	2000US-0225758P
14-AUG-2000	2000US-0225759P
18-AUG-2000	2000US-0226279P
22-AUG-2000	2000US-0226681P
22-AUG-2000	2000US-0226686P
22-AUG-2000	2000US-0227182P
23-AUG-2000	2000US-0227109P
30-AUG-2000	2000US-0228294P
01-SEP-2000	2000US-0229283P
01-SEP-2000	2000US-0229333P
01-SEP-2000	2000US-0229343P
01-SEP-2000	2000US-0229345P
05-SEP-2000	2000US-0229509P
05-SEP-2000	2000US-0229513P
06-SEP-2000	2000US-0230437P

[illegible]



14-AUG-2000; 2000US-0225758P.  
14-AUG-2000; 2000US-0225759P.  
18-AUG-2000; 2000US-0226279P.  
22-AUG-2000; 2000US-0226681P.  
22-AUG-2000; 2000US-0226686P.  
22-AUG-2000; 2000US-0227182P.  
23-AUG-2000; 2000US-0227009P.  
30-AUG-2000; 2000US-0228924P.  
01-SEP-2000; 2000US-0229287P.  
01-SEP-2000; 2000US-0229343P.  
01-SEP-2000; 2000US-0229344P.  
01-SEP-2000; 2000US-0229345P.  
05-SEP-2000; 2000US-0229509P.  
05-SEP-2000; 2000US-0229513P.  
06-SEP-2000; 2000US-0230437P.  
06-SEP-2000; 2000US-0230438P.  
08-SEP-2000; 2000US-0231242P.  
08-SEP-2000; 2000US-0231243P.  
08-SEP-2000; 2000US-0231244P.  
08-SEP-2000; 2000US-0231413P.  
08-SEP-2000; 2000US-0231414P.  
08-SEP-2000; 2000US-0232080P.  
08-SEP-2000; 2000US-0232081P.  
12-SEP-2000; 2000US-0231958P.  
14-SEP-2000; 2000US-0232397P.  
14-SEP-2000; 2000US-0232398P.  
14-SEP-2000; 2000US-0232399P.  
14-SEP-2000; 2000US-0232400P.  
14-SEP-2000; 2000US-0232401P.  
14-SEP-2000; 2000US-0233053P.  
14-SEP-2000; 2000US-0233064P.  
21-SEP-2000; 2000US-0234223P.  
21-SEP-2000; 2000US-0234223P.  
21-SEP-2000; 2000US-0234274P.  
25-SEP-2000; 2000US-0234997P.  
25-SEP-2000; 2000US-0234998P.  
26-SEP-2000; 2000US-0234984P.  
27-SEP-2000; 2000US-0235834P.  
27-SEP-2000; 2000US-0235836P.  
29-SEP-2000; 2000US-0236377P.  
29-SEP-2000; 2000US-0236378P.  
29-SEP-2000; 2000US-0236386P.  
29-SEP-2000; 2000US-0236387P.  
29-SEP-2000; 2000US-0236388P.  
29-SEP-2000; 2000US-0236389P.  
02-OCT-2000; 2000US-0236802P.  
02-OCT-2000; 2000US-0237037P.  
02-OCT-2000; 2000US-0237038P.  
02-OCT-2000; 2000US-0237039P.  
02-OCT-2000; 2000US-0237040P.  
13-OCT-2000; 2000US-0239935P.  
13-OCT-2000; 2000US-0239937P.  
20-OCT-2000; 2000US-0240960P.  
20-OCT-2000; 2000US-0241221P.  
20-OCT-2000; 2000US-0241785P.  
20-OCT-2000; 2000US-0241786P.  
20-OCT-2000; 2000US-0241787P.  
20-OCT-2000; 2000US-0241808P.  
20-OCT-2000; 2000US-0241809P.  
20-OCT-2000; 2000US-0241826P.  
01-NOV-2000; 2000US-0244617P.  
01-NOV-2000; 2000US-0244617P.  
08-NOV-2000; 2000US-0246475P.  
08-NOV-2000; 2000US-0246475P.  
08-NOV-2000; 2000US-0246476P.  
08-NOV-2000; 2000US-0246477P.  
08-NOV-2000; 2000US-0246478P.  
08-NOV-2000; 2000US-0246523P.  
08-NOV-2000; 2000US-0246524P.  
08-NOV-2000; 2000US-0246525P.  
08-NOV-2000; 2000US-0246526P.  
08-NOV-2000; 2000US-0246527P.  
08-NOV-2000; 2000US-0246528P.  
08-NOV-2000; 2000US-0246532P.  
08-NOV-2000; 2000US-0246609P.

PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249219P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249247P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251088P.  
PR 05-DEC-2000; 2000US-0251719P.  
PR 06-DEC-2000; 2000US-0251719P.  
PR 06-DEC-2000; 2000US-0251799P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251889P.  
PR 08-DEC-2000; 2000US-0251909P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.

(HUMA-) HUMAN GENOME SCI INC.  
Rosen CA, Barash SC, Ruben SM,  
WPI; 2001-457726/49.

DR Isolated polypeptide for treating, preventing and diagnosing disorders  
XX related to the endocrine system including endocrine disorders,  
XX reproductive disorders, and gastrointestinal disorders and also for  
XX testing and detection e.g. diagnosis.

PS Disclosure; SEQ ID NO 752; 558bp; English.

XX The invention relates to cDNAs encoding novel human endocrine antigens or  
XX a fragment having biological activity, a domain, an epitope, full length  
XX protein, variant, allelic variant or a species homologue of the  
XX cDNA/antigen. The DNAs and polypeptides are useful for preventing  
XX treating or ameliorating a medical condition when administered (e.g. by  
XX gene therapy or antisense-therapy). Identifying mutations in the genes  
XX coding for the antigens is useful for diagnosing a pathological condition  
XX or a susceptibility to a pathological condition. The DNAs, antigens and  
XX antibodies raised against the antigens useful for treating, preventing  
XX and/or prognosing disorders related to the endocrine system or hormone  
XX imbalance or reproductive disorders, cancers of endocrine tissues,  
XX disorders of the pancreas (e.g. diabetes mellitus), the adrenal glands  
XX (e.g. hirsutism), ovaries, the thyroid (e.g. hyperthyroidism), the  
XX hypothalamus and testes (e.g. vanishing testes syndrome), many examples  
XX of diseases and disorders are given in the specification. The present  
XX sequence is genomic DNA fragment form a gene encoding an endocrine  
XX antigen of the invention. Note: The sequence data for this patent did not  
XX form part of the printed specification, but was obtained in electronic  
XX format directly from WIPO at ftp.wipo.int/pub/published\_pat\_sequences

SO Sequence 4961 BP; 1245 A; 1244 C; 1408 G; 1064 T; 0 U; 0 Other;

Query Match 17.1%; Score 320.4; DB 4; Length 4961;  
Best Local Similarity 82.8%; Pred. No. 2.5e-72;





GenCore version 5.1.9  
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

nucleic - nucleic search, using SW model

on: June 21, 2006, 21:27:40 ; Search time 10368 Seconds  
(without alignments)  
11533.727 Million cell updates/sec

US-10-502-279-26

ect score: 1870  
ence: 1 atctgtctcctagaagctac.....catcccgatcctctag 1870

ing table: IDENTITY NUC  
Gapop 10'0 , Gapext 1.0

ched: 6366136 sege, 31973710525 residues

1 number of hits satisfying chosen parameters: 12732272

num DB seq length: 0

num DB seq length: 2000000000

-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

ibase : GenEmb1:\*

1: gb\_env:\*  
2: gb\_pat:\*  
3: gb\_ph:\*  
4: gb\_pl:\*  
5: gb\_pr:\*  
6: gb\_to:\*  
7: gb\_trs:\*  
8: gb\_ey:\*  
9: gb\_un:\*  
10: gb\_ov:\*  
11: gb\_htg:\*  
12: gb\_in:\*  
13: gb\_cm:\*  
14: gb\_da:\*  
15: gb\_da:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

lt	Score	Query Match	Length	ID	Description
1	1854.2	99.2	217470	5	AC040162 Homo sapi
2	338.8	18.1	61954	12	AC120915 Homo sapi
3	338.8	18.1	6187	5	AL155477 Human DNA
4	338.8	18.1	115710	12	AL139015 Homo sapi
5	338.8	18.1	149138	12	AC026936 Homo sapi
6	335	17.9	128829	5	AC127002 Homo sapi
7	333.4	17.8	201508	12	AC026290 Homo sapi
8	333	17.8	191353	12	AC090320 Homo sapi
9	332.6	17.8	184349	5	AC113189 Homo sapi
10	332.6	17.8	187710	5	CNS01DVI Human chr
11	332	17.8	217260	5	AC145375 Pan trogl
12	331.2	17.7	86176	12	AL150202_09 Continuation (10 o
13	331.2	17.7	185353	5	AL162732 Human DNA
14	331	17.7	101029	5	AC026954 Homo sapi
15	331	17.7	121017	5	AC087388 Homo sapi
16	331	17.7	166941	12	AC008049 Homo sapi
17	331	17.7	222871	12	AC108094 Homo sapi
18	330.8	17.7	33362	2	C0869844 Sequence

C	19	330.8	17.7	92797	5	AF038458 Homo sapi
C	20	330.4	17.7	50303	5	DQ374394 Homo sapi
C	21	330.4	17.7	162991	5	AC027682 Homo sapi
C	22	330.4	17.7	179641	5	AC098591 Homo sapi
C	23	330.4	17.7	200618	5	AC009061 Homo sapi
C	24	329.8	17.6	39978	5	AC005197 Homo sapi
C	25	329.8	17.6	184635	5	AC090239 Homo sapi
C	26	329.8	17.6	16044	12	AC087674 Homo sapi
C	27	329.4	17.6	118684	5	AC025335 Homo sapi
C	28	329	17.6	167906	12	AC164921 Pan trogl
C	29	328.8	17.6	188486	12	AP001796 Homo sapi
C	30	328.6	17.6	21672	5	AC006468 Homo sapi
C	31	328.6	17.6	218485	12	AC127470 Pan trogl
C	32	328.4	17.6	18868	5	AC023232 Homo sapi
C	33	328	17.5	57013	12	AC015769 Homo sapi
C	34	327.6	17.5	125756	5	AL590369 Human DNA
C	35	327.6	17.5	185511	12	AC007779 Homo sapi
C	36	327.4	17.5	136372	5	AC103828 Homo sapi
C	37	327.4	17.5	145450	12	AC068352 Homo sapi
C	38	327.4	17.5	153936	5	AP001207 Homo sapi
C	39	327.4	17.5	166471	12	AC091052 Homo sapi
C	40	327	17.5	16542	12	AC129071 Homo sapi
C	41	326.4	17.5	125445	5	AC078795 Homo sapi
C	42	326.4	17.5	131682	5	AL672277 Human DNA
C	43	326.4	17.5	148152	12	AC022200 Homo sapi
C	44	326.4	17.5	154563	5	CR936360 Human DNA
C	45	326.2	17.4	184857	12	AP002503 Homo sapi

#### ALIGNMENTS

RESULT 1	AC040162	217470 bp	DNA	linear	PRI 28-MAR-2003
LOCUS	HOMO sapiens chromosome 16 clone CTC-479C5, complete sequence.				
DEFINITION	AC040162				
ACCESSION	AC040162.5	GI:29336195			
VERSION					
KEYWORDS	HTG.				
SOURCE	HOMO sapiens (human)				
ORGANISM	Homo sapiens				
REFERENCE	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.				
AUTHORS	1 (bases 1 to 217470) Alamos National Laboratory.				
TITLE	Direct Submission				
JOURNAL	Unpublished				
REFERENCE	DOE Joint Genome Institute.				
AUTHORS	2 (bases 1 to 217470) DOE Joint Genome Institute.				
TITLE	Direct Submission				
JOURNAL	Submitted (11-APR-2000) Production Sequencing Facility, DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA				
REFERENCE	3 (bases 1 to 217470) DOE Joint Genome Institute.				
AUTHORS	4 (bases 1 to 217470) Alamos National Laboratory.				
TITLE	Direct Submission				
JOURNAL	Submitted (28-MAR-2003) DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA				
COMMENT	On Mar 28, 2003 this sequence version replaced gi:19909394. Draft Sequence Produced by DOE Joint Genome Institute www.jgi.doe.gov Finishing Completed at Stanford Human Genome Center and Los Alamos National Laboratory www-ehgc.stanford.edu Quality: Phrap Quality >=40 100% of Sequence; Estimated Total Number of Errors is 0.				

URES Location/Qualifiers  
source 1. 217470  
/organism="Homo sapiens"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:9606"  
/chromosome="15"  
/clone="CTC-479C5"

ery Match 99.2%; Score 1854.2; DB 5; Length 217470;  
st Local Similarity 99.8%; Pred. No. 0;  
ches 1867; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

1 ATCTGTCTTGAAGAAAGTACCAAGCAATCTACAGGCTCTGAATTAAGTCTCT 60  
16606 ATCTGTCTTGAAGAAAGTACCAAGCAATCTACAGGCTCTGAATTAAGTCTCT 16665  
61 AGTTCTAGATTTTCACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120  
16666 AGTTCTAGATTTTCACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 166725  
121 GCAAGTTGGCTCTCTCTGAGCTCTTGGATGAACTGATTTCAATGCTCATGAGCA 180  
166726 GCAAGTTGGCTCTCTCTGAGCTCTTGGATGAACTGATTTCAATGCTCATGAGCA 166785  
181 GATATGAGCTAGAAAGTTTACATCCAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240  
166786 GATATGAGCTAGAAAGTTTACATCCAGAGAGAGAGAGAGAGAGAGAGAGAGAG 166845  
241 CATCTGCTCTATTTCTTCTGAGCAGAGAGAGATTAATCTAGAGCAATTCATATGAG 300  
166846 CATCTGCTCTATTTCTTCTGAGCAGAGAGAGATTAATCTAGAGCAATTCATATGAG 166905  
301 AAAACTCTAGAGTCAAGAGTACTTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360  
166906 AAAACTCTAGAGTCAAGAGTACTTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 166965  
361 CTGGAGAAATATTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420  
166966 CTGGAGAAATATTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 167025  
421 GGGTCTCAATCAGCCCTCTTAAGAGACTGATTTCTGCTGCTGCTGCTGAGGAGAGAG 480  
167026 GGGTCTCAATCAGCCCTCTTAAGAGACTGATTTCTGCTGCTGCTGCTGAGGAGAGAG 167085  
481 CAGAGATGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 539  
167086 CAGAGATGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 167145  
540 CTGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 599  
167146 CTGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 167205  
600 CTCCGGATTCAGAGCAATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 659  
167206 CTCCGGATTCAGAGCAATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 167265  
660 GCGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 719  
167266 GCGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 167325  
720 GAGTACAGTGGCAATGATCTCAGTTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 779  
167326 GAGTACAGTGGCAATGATCTCAGTTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 167385  
780 CCTGCTCAGTCTCTGAGTAGTATGATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 839  
167386 CCTGCTCAGTCTCTGAGTAGTATGATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 167445  
840 TTTGATTTTTAGTAGAGATGCGCTTTGCGATGTTGCGCATGCTGTAAGCCCGG 899  
167446 TTTGATTTTTAGTAGAGATGCGCTTTGCGATGTTGCGCATGCTGTAAGCCCGG 167505

QY 900 ACTCAGGTGATCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 959  
DB 167506 ACTCAGGTGATCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 167565  
QY 960 GCGCAGGAGGCTGAGCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1019  
DB 167566 GCGCAGGAGGCTGAGCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 167625  
QY 1020 GCTTTACATGCCATCTCTCCCTGAGTCCCAAGGCTCTCTGAGCTGCTGCTTAATTTA 1079  
DB 167626 GCTTTACATGCCATCTCTCCCTGAGTCCCAAGGCTCTCTGAGCTGCTGCTTAATTTA 167685  
QY 1080 CCATCTCTCAATCAAGAGAGGCTTTTACAAAGATTCAGATTAAGATTTTGTGCAAG 1139  
DB 167686 CCATCTCTCAATCAAGAGAGGCTTTTACAAAGATTCAGATTAAGATTTTGTGCAAG 167745  
QY 1140 ATATCTCTTCCCGAGAACTCAGTAGAGGCTCTGATGAGCATGATTAAGGCAATTTCA 1199  
DB 167746 ATATCTCTTCCCGAGAACTCAGTAGAGGCTCTGATGAGCATGATTAAGGCAATTTCA 167805  
QY 1200 AAGCAACAGGTTCTGCTGCTGCTTTCAGAGAGCTCAGTTGTTGGAAATGAGCAAGCA 1259  
DB 167806 AAGCAACAGGTTCTGCTGCTGCTTTCAGAGAGCTCAGTTGTTGGAAATGAGCAAGCA 167865  
QY 1260 GTGAGGGAGAGCAGACTTTCTGAGCTTCCAGCCCTGCTGCTGCTGCTGCTGCTGCTGCT 1319  
DB 167866 GTGAGGGAGAGCAGACTTTCTGAGCTTCCAGCCCTGCTGCTGCTGCTGCTGCTGCTGCT 167925  
QY 1320 AAGGCCCCCAAGAGCTGAAATCTACGTGCCCCCAAGGCCCCCAAGGCCCCCAAGGCCCCCA 1379  
DB 167926 AAGGCCCCCAAGAGCTGAAATCTACGTGCCCCCAAGGCCCCCAAGGCCCCCAAGGCCCCCA 167985  
QY 1380 TTCTGCTTTAGCAGTACAGCTCAAGAACTCAGGCTGTAATTTACTTCCCTGCTGCTAG 1439  
DB 167986 TTCTGCTTTAGCAGTACAGCTCAAGAACTCAGGCTGTAATTTACTTCCCTGCTGCTAG 168045  
QY 1440 TCCCACTTAATCATCCATTTCTTATGAGTACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1499  
DB 168046 TCCCACTTAATCATCCATTTCTTATGAGTACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 168105  
QY 1500 CTGCTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1559  
DB 168106 CTGCTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 168165  
QY 1560 CCTCAGCCCATCAGGCCCCAGATCTCTTAAGACAGAGAGAGAGAGAGAGAGAGAGAGAG 1619  
DB 168166 CCTCAGCCCATCAGGCCCCAGATCTCTTAAGACAGAGAGAGAGAGAGAGAGAGAGAGAG 168225  
QY 1620 CCGCTCCGCTCATATTCCTGAGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1679  
DB 168226 CCGCTCCGCTCATATTCCTGAGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 168285  
QY 1680 ACAGAGGAGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1739  
DB 168286 ACAGAGGAGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 168345  
QY 1740 TACACCCGCGCGGCTATGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1799  
DB 168346 TACACCCGCGCGGCTATGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 168405  
QY 1800 GCGGAGGAGGCTTACCATGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1859  
DB 168406 GCGGAGGAGGCTTACCATGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 168465  
QY 1860 ATCTCTCTGAG 1870  
DB 168466 ATCTCTCTGAG 168476

RESULT 2  
AC120915 61954 bp DNA linear HTG 23-JUL-2002  
LOCUS AC120915  
DEFINITION Homo sapiens, \*\*\* SEQUENCING IN PROGRESS \*\*\*; 22 unordered pieces.

```

:SESSION AC120915
:ION AC120915.2 GI:21903270
:NORDS HTG: HTGS PHASRI.
:CE Homo sapiens (human)
:GANISM Homo sapiens
      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
      Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
      Homidae; Homo.
:RENCE 1 (bases 1 to 61954)
:THORS Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-osman,F.R., Allen,C.,
      Albrooks,S.L., Amaralunga,H.C., Are,J.R., Ayale,M., Banks,T.,
      Barbieri,J., Benton,J., Bimaga,K., Blankenburg,K., Bonnin,D.,
      Bouck,J., Bowie,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P.,
      Buay,C., Burck,P., Burckett,C., Burrell,K.L., Byrd,N.C.,
      Carion,T.F., Carter,M., Cavazos,S.R., Chacko,J., Chavez,D.,
      Chen,G., Chen,R., Chen,Z., Chowdhry,I., Christopoulos,C.,
      Cleveland,C.D., Cox,C., Coyle,M.D., Dathorne,S.R., David,R.,
      Davila,M.L., Davis,C., Davy-Carroll,L., Dederich,D.A.,
      Delaney,K.R., Delgado,O., Denn,A.L., Ding,Y., Dinh,H.H.,
      Douthwaite,K.J., Draper,H., Dugan-Rocha,S., Durbin,K.J.,
      Earhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Escotto,M.,
      Falls,T., Ferraguto,D., Flagg,N., Ford,J., Foster,P., Frantz,P.,
      Gabali,A., Gao,J., Garcia,A., Garner,T., Garza,N., Gill,R.,
      Gorrell,J.H., Guevara,W., Gunatane,P., Hale,S., Hamilton,K.,
      Harris,C., Harris,K., Hart,M., Havlak,P., Hawes,A., Hernandez,J.,
      Hernandez,O., Hodgson,A., Hogue,M., Holloway,C., Hollins,B.,
      Homs,F., Howard,S., Huber,J., Hulik,S., Hume,J., Jackson,L.E.,
      Jacobson,B., Jia,Y., Johnson,R., Jolivet,S., Joudah,S.,
      Karlsson,E., Kelly,S., Khan,U., King,L., Korrah,J., Kovar,C.,
      Kratovic,J., Kureishi,A., Landry,N., Leal,B., Lewis,J.C., Lewis,L.,
      Li,J., Li,Z., Licharge,O., Lien,C., Liu,J., Liu,W., Louieged,H.,
      Lozada,R.J., Lu,X., Lucier,A., Lucier,R., Luna,R., Ma,J.,
      Maheshwari,M., Mapa,P., Martin,R., Martindale,A., Martinez,E.,
      Massey,E., Mawliny,E., Mcleod,M.P., Meador,M., Mei,G., Mezzer,M.,
      Miner,G., Miner,Z., Mitchell,T., Mohabbat,K., Morgan,M., Morris,S.,
      Moser,M., Neal,D., Newton,J., Newson,N., Nguyen,A., Nguyen,N.,
      Nguyen,N., Nickerson,E., Nwokwenkwo,S., Ogulu,M., Okunolu,J.,
      Ogunyeye,N., Oviedo,R., Pace,A., Payton,B., Peery,J., Perez,L.,
      Peters,L., Pickens,R., Primus,E., Pu,L.L., Quiles,M., Ren,Y.,
      Rivers,M., Rojas,A., Rojibokan,I., Rolfe,M., Ruiz,S., Savery,G.,
      Scherer,S., Scott,G., Shen,H., Shooshtari,N., Sison,I.,
      Sodergren,B., Sonakke,T., Sparks,A., Stanley,H., Stone,H.,
      Sutton,A., Svatek,A., Tabor,J., Tamerisa,A., Tamerisa,K., Tang,H.,
      Tansley,J., Taylor,C., Taylor,T., Telford,B., Thomas,N., Thomas,S.,
      Uemari,K., Vasquez,L., Vera,Y., Villalón,D., Vinson,R., Wang,Q.,
      Wang,S., Ward-Moore,S., Warren,R., Washington,C., Wallington,S.,
      Williams,G., Williamson,A., Wleczky,R., Wooden,S., Worley,K.,
      Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Nelson,D.,
      Weinstein,G. and Gibbs,R.
:THORAL Unpublished
:THORAL 2 (bases 1 to 61954)
:THORAL Direct Submission
:THORAL Submitted (14-MAY-2002) Human Genome Sequencing Center, Department
      of Molecular and Human Genetics, Baylor College of Medicine, One
      Baylor Plaza, Houston, TX 77030, USA
:THORAL 3 (bases 1 to 61954)
:THORAL Worley,K.C.
:THORAL Direct Submission
:THORAL Submitted (23-JUL-2002) Human Genome Sequencing Center, Department
      of Molecular and Human Genetics, Baylor College of Medicine, One
      Baylor Plaza, Houston, TX 77030, USA
:THORAL On Jul 18, 2002 this sequence version replaced gi:20564251.
:THORAL ----- Genome Center
:THORAL Center: Baylor College of Medicine
:THORAL Center code: BCM
:THORAL Web site: http://www.hgsc.bcm.tmc.edu/
:THORAL Contact: hgsc-help@bcm.tmc.edu
:THORAL ----- Project Information
:THORAL Center project name: GMBB
:THORAL Center clone name:
:THORAL ----- Summary Statistics

```

```

Sequencing vector: Plasmid
Chemistry: Dye-terminator Big Dye 100% of reads
Assembly program: Phrap; version 0.990329
Consensus quality: 78665 bases at least Q40
Consensus quality: 87559 bases at least Q30
Consensus quality: 93646 bases at least Q20
-----
NOTE: Estimated insert size may differ from sequence length
      (see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html).
NOTE: This is a 'working draft' sequence. It currently
      consists of 22 contigs. The true order of the pieces
      is not known and their order in this sequence record is
      arbitrary. Gaps between the contigs are represented as
      runs of N, but the exact sizes of the gaps are unknown.
      This record will be updated with the finished sequence
      as soon as it is available and the accession number will
      be preserved.
1 2038: contig of 2038 bp in length
2039 2138: gap of unknown length
2139 4239: contig of 2101 bp in length
4240 4339: gap of unknown length
4340 6593: contig of 2254 bp in length
6594 6693: gap of unknown length
6694 8997: contig of 2304 bp in length
8998 9097: gap of unknown length
9098 11920: contig of 2823 bp in length
11921 12020: gap of unknown length
12021 14131: contig of 2111 bp in length
14132 14231: gap of unknown length
14232 16548: contig of 2317 bp in length
16549 16648: gap of unknown length
16649 18948: contig of 2300 bp in length
18949 19048: gap of unknown length
19049 21648: contig of 2600 bp in length
21649 21748: gap of unknown length
21749 24035: contig of 2287 bp in length
24036 24135: gap of unknown length
24136 26191: contig of 2056 bp in length
26192 26291: gap of unknown length
26292 28364: contig of 2073 bp in length
28365 28464: gap of unknown length
28465 31590: contig of 3126 bp in length
31591 31690: gap of unknown length
31691 33847: contig of 2157 bp in length
33848 33947: gap of unknown length
33948 36904: contig of 2957 bp in length
36905 37004: gap of unknown length
37005 40115: contig of 3111 bp in length
40116 40215: gap of unknown length
40216 44221: contig of 4006 bp in length
44222 44321: gap of unknown length
44322 47641: contig of 3320 bp in length
47642 47741: gap of unknown length
47742 50640: contig of 2899 bp in length
50641 50740: gap of unknown length
50741 54553: contig of 3813 bp in length
54554 54653: gap of unknown length
54654 58413: contig of 3760 bp in length
58414 61954: gap of unknown length
61954 61954: contig of 3441 bp in length.
-----
FEATURES
source
1..61954
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
2039..2138
/estimated_length=unknown
4240..4339
/estimated_length=unknown
6594..6693
/estimated_length=unknown
8998..9097
/estimated_length=unknown

```

gap	11921. .12020	/estimated_length=unknown
gap	14132. .14231	/estimated_length=unknown
gap	16549. .16648	/estimated_length=unknown
gap	18949. .19048	/estimated_length=unknown
gap	21649. .21748	/estimated_length=unknown
gap	24036. .24135	/estimated_length=unknown
gap	26192. .26291	/estimated_length=unknown
gap	28365. .28464	/estimated_length=unknown
gap	31591. .31690	/estimated_length=unknown
gap	33848. .33947	/estimated_length=unknown
gap	36905. .37004	/estimated_length=unknown
gap	40116. .40215	/estimated_length=unknown
gap	44222. .44321	/estimated_length=unknown
gap	47642. .47741	/estimated_length=unknown
gap	50641. .50740	/estimated_length=unknown
gap	54554. .54653	/estimated_length=unknown
gap	58414. .58513	/estimated_length=unknown

```

ery Match      18.1%; Score 338.8; DB 12; Length 61954;
SE Local Similarity 83.5%; Pred. No.1.5e-96;
ches 396; Conservative 0; Mismatches 73; Indels 5; Gaps 1;

503 TTTTTCCTTTCTTTCTTTTCCTTTTTTTTGAGACAGAGCTGTGCTCTGTGCGCCAGGCTGA 562
31983 TTGATTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGACAGAGCTCACTTGTGCCAGGCTGGA 32042

563 GTGCAGTGGCATGATCTCTGCCACTGCACAACCTCTGCTCCCGGATTCAAGCATCTCC 622
32043 GTACAGTGGCATGATCTGAGCTCATAACAACCTCTGCTCCAGSTTGAAGCATTAAG 32102

623 TGCTTCAGCTCCCAAGTAGCTGGAGTTA CAGGTGACGCGCACCAACCACCTTTT 682
32103 TGCCTCAGGCTCCCAAGTAGCTGGAGTTT CAGGTGACCGCACCAACATYGGCTATT 32162

683 ATTTTG-----GAGACAGAGCTGTGCCCTGTACCCCAGGCTGGAGTACAGTGCATGATC 737
32163 TTTTTTTTTTTGAGACAGAGCTGAGCTCTGTACCCAGGCTGGAGTGCAGTGGCGCATC 32222

738 TCAGTTCACCTGCGACCTCCACCTCCCGGTTTCAAGAATTTCTCTGCTCATGCTCTCGA 797
32223 TCGGTTCATGTCAGCTCCGCGCTCCCGGGTTCAAGATTTCTCTGCTCATGCTCTCGA 32282

798 GTAGCTAGAGATTACAGAAGTGACCTCCACCGTTCACTAATTTTGTATTTTATAGTAGAG 857
32283 GTAGCTGGAGATTACAGGACCCACACACATGCTGGTAAATTTTGTATTTTATAGTAGAG 32342

858 ATGCGCTTTTTCAGCATGTGGCCA TGTAGCTTGGAA CCCCGAACCTCAGGTGATCCGCTG 917
32343 ACTGATTTTTCGCAATTTGGCCAGCTGCGTCAAACCTCGTAGCTCAGGTGATCTGCT 32402

918 GCCTTGCCCTCCCAAGTGTGGGAATTGAGAGGTAGACATGCGCCAGGCT 971
32403 GCCTTACGCTCCCAAGTGTGGGAATTACAGAGTAAAGCACCTGTCCGCGCT 32456

```

RESULT 3	
AL355477	
LOCUS	
DEFINITION	63187 bp DNA linear PRI 18-MAY-2005
	Human DNA sequence from clone Rpl11-11D13 on chromosome 1 contains the 5' end of the MAC1 gene for microtubule-actin crosslinking factor 1 and two CpG islands, complete sequence.
ACCESSION	AL355477
VERSION	AL355477.14 GI:16973826
KEYWORDS	HNG; ACTIN; CpG island; MACF1; microtubule.
SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens
	Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominiidae; Homo;
REFERENCE	1 (bases 1 to 63187) Tracey,A.
AUTHORS	Direct Submission
TITLE	Submitted (13-MAY-2005) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: vegas@sanger.ac.uk
JOURNAL	Clone requests: clonesrequest@sanger.ac.uk On Nov 17, 2001 this sequence version replaced gi:16304908.
COMMENT	

----- Genome Center  
Center: Wellcome Trust Sanger Institute  
Center code: SC  
Web site: <http://www.sanger.ac.uk>  
Contact: [vega@sanger.ac.uk](mailto:vega@sanger.ac.uk)  
-----

This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one subclone; and the assembly was confirmed by restriction digest, except on the rare occasion of the clone being a YAC.

FEATURES	source	Location/Qualifiers
misc_feature	1..63187	/organism="Homo sapiens"
misc_feature		/mol_type="genomic DNA"
misc_feature		/db_xref="taxon:9606"
misc_feature		/chromosome="1"
misc_feature		/clone="RP11-113D13"
misc_feature	1	/clone_1fb="RPC1-11.1"
misc_feature	11821..11840	/note="Clone left_end: RP11-113D13"
misc_feature		/note="Sequence from AC026536 sequenced by MIB."
gene	join(11701..11928,13748..13802,14552..14823,33088..33366)	/gene="MACF1"
mRNA	/locus_tag="RP11-69E11.1-012"	join(11701..11928,13748..13802,14552..14823,33088..33366)
	/locus_tag="RP11-69E11.1-012"	/gene="MACF1"
	/locus_tag="RP11-69E11.1-012"	/product="microtubule-actin crosslinking factor 1"
	/note="match: ESTs: Em:AA046493.1 Em:AA047436.1 Em:BM685084.1 Em:BX107650.1 Em:CD675344.1"	
gene	join(14552..14823,AL442071.30:5092..5153,AL442071.30:23924..24013,AL442071.30:28208..28265,AL442071.30:31846..31938,AL442071.30:56118..56284,AL442071.30:57099..57211,AL442071.30:57319..57425,AL442071.30:57976..58095,AL442071.30:58243..58338,	



```

682 TATTTTGACAGAGTCTTGGCTTGTACCCAGGCTGAGTACAGTGCATGATCTCAG 741
      |||||
8564 TTTTGTGAGATGAGAGTCTGTCTGTCCGCCAGGCTGAGTACAGTGCATGATCTCAG 8623
      |||||
742 TTCACGTGACCTCCACCTCCGGGTTTAAAGCAATCTCTGCTCAGTCTCCTGATGAG 801
      |||||
8624 CTCACGTGACCTCCACCTCCGGGTTTAAAGCAATCTCTGCTCAGTCTCCTGATGAG 8683
      |||||
802 CTAGATTTACAGAGTGCACCTCCAGCTTCAAGTAAATTTTGTATTTTATGAGAGATGC 861
      |||||
8684 CTGGGATTTACAGGTGTGTGCTGCACCACTCCAGCTAATTTTGTATTTTATGAGAGACGG 8743
      |||||
862 GCTTTTGGCATGTGGCCATGCTAGTCTGAGAACCCCGGACCTTCAGTGTATCCGCTGCT 921
      |||||
8744 GGTTCACCATGTTGACACAGGCTGTCTGGAACCCCTGAACTCAGTGTATCTGCCATCT 8803
      |||||
922 TGGCCCTCCCAAGTGTGGGATTTGACGGGTGAGCCATGCGCCAGGCTGAGCTACTCC 981
      |||||
8804 CTGCCACCCAAAGTGTGGGATTTACAGGTCTGAGACACCGCACCCGGCTTACTCTGTGCC 8863
      |||||
982 TTTAGTCTCTGGAAGACTGCGGCTC 1007
      |||||
8864 TCTATGAGCTCAATATTTTAGGTTTC 8889
      |||||

```

```

.1 4
1015/c      115710 bp      DNA      1linear      HTG 06-SEP-2001
S      Homo sapiens chromosome 1 clone RP4-648J17 map p34.1-34.3, 6
NITION      Unordered pieces.
SION      AL139015
ION      AL139015
ORDS      AL139015.6 GI:13567858
CE      HTG: HTGS_PHASE1; HTGS_CANCELLED.
GANISM      Homo sapiens (human)
      Homo sapiens
      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
      Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
      Homnidae; Homo.
RENCE      1
THORS      Plumb,B.
TLE      Direct Submission
UNNAL      Submitted (05-SEP-2001) Sanger Centre, Hinxton, Cambridgeshire,
      CB10 1SA, UK. E-mail enquiries: humquerry@sanger.ac.uk Clone
      Request: clonerequest@sanger.ac.uk
      On Apr 9, 2001 this sequence version replaced gi:9796296.
      ----- Genome Center
      Center: Sanger Centre
      Center code: SC
      Web site: http://www.sanger.ac.uk
      Contact: humquerry@sanger.ac.uk
      ----- Project Information
      Center project name: dj648J17
      ----- Summary Statistics
      Assembly program: XGAP4; version 4.5
      Sequencing vector: plasmid; L08752; 100% of reads
      Chemistry: Dye-terminator Big Dye; 100% of reads
      Consensus quality: 113662 bases at least Q40
      Consensus quality: 114216 bases at least Q30
      Insert size: 115210; sum-of-contigs
      Insert size: 132500; 15.0% error; agarose-fp
      Quality coverage: 6.13x in Q20 bases; sum-of-contigs quality
      coverage: 5.53x in Q20 bases; agarose-fp

```

\* NOTE: This is a 'working draft' sequence. It currently consists of 6 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of 'N', but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

1 36330: contig of 36330 bp in length

```

FEATURES
source      1..115710
            /organism="Homo sapiens"
            /mol_type="genomic DNA"
            /db_xref="taxon:9606"
            /chromosome="1"
            /map="p34.1-34.3"
            /clone="RP4-648J17"
            /clone_1id="RP4-4"
            Location/Qualifiers
            ..36330
            /note="assembly_fragment:01504"
            fragment_chain:1"
            /note="assembly_fragment:01208"
            fragment_chain:1"
            /note="assembly_fragment:00376"
            fragment_chain:1"
            /note="assembly_fragment:01176"
            fragment_chain:1"
            /note="assembly_fragment:00586"
            fragment_chain:1"
            /note="assembly_fragment:00793.0"

```

```

ORIGIN
Query Match      18.1%; Score 338.8; DB 12; Length 115710;
Best Local Similarity 80.8%; Pred. No. 1.8e-96;
Matches 409; Conservative 0; Mismatches 92; Indels 5; Gaps 1;
QY      507 TTTTTCCTTTCTTTTGTGAGACAGATCTTGTGCGCCAGGCTGAGTGC 566
      |||||
DB      3046 TTTATTTGTTGTTCTTTTGTGAGATGAGTCTGCTTTTGTAGCCAGCTGAGTGC 2987
      |||||
QY      567 ATGGCATATCTGTGCCCATGCACTCTGCTCCGAGATTCAAGCATTCCTCTGCC 626
      |||||
DB      2986 ATGGCAGGCTCTCAGCTCAGTCACTCCGCTCCAGTTCAAGCATTCCTCTGCC 2927
      |||||
QY      627 TCAGCTCCCAAGTACCTGGATTACAGTGCACCCACACACCCAGC-----TTTTTT 681
      |||||
DB      2926 TCAGCTCCCTGAGTACCTGGATTACAGGCAATGCAACACCCAGCTAAATTTTTTT 2867
      |||||
QY      682 TATTTTGACAGAGTCTTGGCTTGTACCCAGGCTGAGTACAGTGCATGATCTCAG 741
      |||||
DB      2866 TTTTGTGAGATGAGAGTCTGTCTGTCCGCCAGGCTGAGTACAGTGCATGATCTCAG 2807
      |||||
QY      742 TTCACGTGACCTCCACCTCCGGGTTTAAAGCAATCTCTGCTCAGTCTCCTGATGAG 801
      |||||
DB      2806 CTCACGTGACCTCCACCTCCGGGTTTAAAGCAATCTCTGCTCAGTCTCCTGATGAG 2747
      |||||
QY      802 CTAGATTTACAGAGTGCACCTCCAGCTTCAAGTAAATTTTGTATTTTATGAGAGATGC 861
      |||||
DB      2746 CTGGGATTTACAGGTGTGTGCTGCACCACTCCAGCTAATTTTGTATTTTATGAGAGACGG 2687
      |||||
QY      862 GCTTTTGGCATGTGGCCATGCTAGTCTGAGAACCCCGGACCTTCAGTGTATCCGCTGCT 921
      |||||
DB      2686 GGTTCACCATGTTGACACAGGCTGTCTGGAACCCCTGAACTCAGTGTATCTGCCATCT 2627
      |||||
QY      922 TGGCCCTCCCAAGTGTGGGATTTGACGGGTGAGCCATGCGCCAGGCTGAGCTACTCC 981
      |||||
DB      2626 CTGCCACCCAAAGTGTGGGATTTACAGGTCTGAGACACCGCACCCGGCTTACTCTGTGCC 2567
      |||||

```



982 TTAGTCTCTGAAAGACTGCGCTC 1007  
 |||||  
 2566 TCTATGAGCTCAATATTTTAGGTTT 2541

149138 bp DNA linear HTG 27-APR-2000  
 AC026936 Homo sapiens chromosome 1 clone RP11-186C2 map 1, WORKING DRAFT  
 SEQUENCE, 33 unordered pieces.  
 AC026936.2 GI:7652013  
 HTG; HTGS PHASE1; HTGS\_DRAFT.  
 Homo sapiens (human)  
 Homo sapiens  
 Bakayote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
 Homidae; Homo.  
 1 (bases 1 to 149138)  
 Birren, B., Linton, L., Nusbaum, C. and Lander, E.  
 Homo sapiens chromosome 1, clone RP11-186C2  
 Unpublished  
 2 (bases 1 to 149138)  
 Birren, B., Linton, L., Nusbaum, C., Lander, E., Abraham, H., Allen, N.,  
 Anderson, S., Baldwin, J., Barna, N., Baetsen, V., Beda, F.,  
 Boguslavsky, L., Boukhalter, B., Brown, A., Burkett, G.,  
 Campoliano, A., Castle, A., Choepel, Y., Colangelo, M., Collins, S.,  
 Collymore, A., Cooke, P., DeArrelano, K., Dewar, K., Diaz, J.S.,  
 Dodge, S., Domingo, M., Doyle, M., Ferreira, P., Fitzhugh, W., Gage, D.,  
 Gallegher, J., Gardyna, S., Ginde, S., Goyette, M., Graham, L.,  
 Grand-Pierre, N., Grant, G., Hagos, B., Heaford, A., Horton, L.,  
 Howland, J.C., Iliev, I., Johnson, R., Jones, C., Kann, L., Karas, A.,  
 Klein, J., LaRocque, K., Lamazares, R., Landers, T., Lehoczy, J.,  
 Levine, R., Liu, C., Liu, G., Locke, K., Macdonald, P., Marcus, N.,  
 McCarthy, M., McEwan, P., McGuck, A., McKernan, K., McPheters, R.,  
 Meldrum, J., Menus, L., Mihova, T., Miranda, C., Mlenga, V., Morrow, J.,  
 Murphy, T., Naylor, J., Norman, C.H., O'Connor, T., O'Donnell, P.,  
 O'Neil, D., Oliver, T.M., Oliver, J., Peterson, K., Pierre, N.,  
 Pisanic, C., Pollara, V., Raymond, C., Riley, R., Rogov, P., Rothman, D.,  
 Roy, A., Santos, R., Schauer, S., Severy, P., Spencer, B.,  
 Stange-Thomann, N., Stojanovic, N., Subramanian, A., Talamas, J.,  
 Testaye, S., Theodore, J., Tirrell, A., Travers, M., Triggillo, J.,  
 Vassiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W.J.,  
 Young, G., Zainoun, J., Zimmer, A. and Zody, M.  
 Direct Submission  
 Submitted (25-MAR-2000) Whitehead Institute/MIT Center for Genome  
 Research, 320 Charles Street, Cambridge, MA 02141, USA  
 On Apr 27, 2000 this sequence version replaced gi:7328801.  
 All repeats were identified using RepeatMasker:  
 Smit, A.F.A. & Green, P. (1996-1997)  
 http://ftp.genome.washington.edu/RM/RepeatMasker.html  
 Genome Center  
 Center: Whitehead Institute/ MIT Center for Genome Research  
 Center code: WIBR  
 Web site: http://www-seq.wi.mit.edu  
 Contact: sequence\_submissions@genome.wi.mit.edu  
 Project Information  
 Center project name: L7617  
 Center clone name: 186\_C2  
 Summary Statistics  
 Sequencing vector: MJ3; M77815; 100% of reads  
 Chemistry: Dye-terminator Big Dye; 100% of reads  
 Assembly program: Phrap; version 0.960731  
 Consensus quality: 13250 bases at least Q40  
 Consensus quality: 140551 bases at least Q30  
 Consensus quality: 144026 bases at least Q20  
 Insert size: 157000; agarose-fp  
 Insert size: 145938; sum-of-contigs  
 Quality coverage: 4.0 in Q20 bases; agarose-fp  
 Quality coverage: 4.3 in Q20 bases; sum-of-contigs  
 NOTE: This is a 'working draft' sequence. It currently

## FEATURES

\* consists of 33 contigs. The true order of the pieces  
 \* is not known and their order in this sequence record is  
 \* arbitrary. Gaps between the contigs are represented as  
 \* runs of N, but the exact sizes of the gaps are unknown.  
 \* This record will be updated with the finished sequence  
 \* as soon as it is available and the accession number will  
 \* be preserved.  
 1 1364: contig of 1364 bp in length  
 1365 1464: gap of 100 bp  
 1465 2866: contig of 1402 bp in length  
 2867 2967: gap of 100 bp  
 2968 4325: contig of 1359 bp in length  
 4326 4426: gap of 100 bp  
 4427 5456: contig of 1030 bp in length  
 5457 5556: gap of 100 bp  
 5557 6761: contig of 1206 bp in length  
 6762 6862: gap of 100 bp  
 6863 8300: contig of 1438 bp in length  
 8301 8399: gap of 100 bp  
 8400 11139: contig of 2740 bp in length  
 11140 11239: gap of 100 bp  
 11240 13012: contig of 1773 bp in length  
 13013 13112: gap of 100 bp  
 13113 15320: contig of 2208 bp in length  
 15321 15420: gap of 100 bp  
 15421 16828: contig of 1408 bp in length  
 16829 16929: gap of 100 bp  
 16930 18769: contig of 1841 bp in length  
 18770 18869: gap of 100 bp  
 18870 20670: contig of 1801 bp in length  
 20671 20770: gap of 100 bp  
 20771 22998: contig of 2228 bp in length  
 22999 23098: gap of 100 bp  
 23099 23754: contig of 656 bp in length  
 23755 23854: gap of 100 bp  
 23855 26081: contig of 2227 bp in length  
 26082 26181: gap of 100 bp  
 26182 28819: contig of 2638 bp in length  
 28820 28919: gap of 100 bp  
 28920 30950: contig of 2031 bp in length  
 30951 31050: gap of 100 bp  
 31051 34127: contig of 3077 bp in length  
 34128 34227: gap of 100 bp  
 34228 37535: contig of 3308 bp in length  
 37536 37635: gap of 100 bp  
 37636 40364: contig of 2729 bp in length  
 40365 40464: gap of 100 bp  
 40465 45668: contig of 5204 bp in length  
 45669 45768: gap of 100 bp  
 45769 51359: contig of 5591 bp in length  
 51360 51459: gap of 100 bp  
 51460 56834: contig of 5375 bp in length  
 56835 56934: gap of 100 bp  
 56935 61504: contig of 4570 bp in length  
 61505 61604: gap of 100 bp  
 61605 67102: contig of 5498 bp in length  
 67103 67202: gap of 100 bp  
 67203 72252: contig of 5050 bp in length  
 72253 72352: gap of 100 bp  
 72353 78175: contig of 5823 bp in length  
 78176 78275: gap of 100 bp  
 78276 83342: contig of 5067 bp in length  
 83343 83442: gap of 100 bp  
 83443 91033: contig of 7591 bp in length  
 91034 91133: gap of 100 bp  
 91134 98803: contig of 7670 bp in length  
 98804 98903: gap of 100 bp  
 98904 113936: contig of 15033 bp in length  
 113937 114036: gap of 100 bp  
 114037 129279: contig of 15243 bp in length  
 129280 129379: gap of 100 bp  
 129380 149138: contig of 19759 bp in length.  
 Location/Qualifiers

```

source
1. .149138
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="1"
/map="1"
/clone="RP11-186C2"
/clone_id="RP11-11 Human Male BAC"
misc_feature
1. .1354
/note="assembly_fragment"
gap
1365. .1464
/estimated_length=100
misc_feature
1465. .2866
/note="assembly_fragment"
gap
2867. .2966
/estimated_length=100
misc_feature
2967. .4325
/note="assembly_fragment"
gap
4326. .4425
/estimated_length=100
misc_feature
4426. .5455
/note="assembly_fragment"
gap
5456. .5555
/estimated_length=100
misc_feature
5556. .6761
/note="assembly_fragment"
gap
6762. .6861
/estimated_length=100
misc_feature
6862. .8259
/note="assembly_fragment"
gap
8300. .8399
/estimated_length=100
misc_feature
8400. .11139
/note="assembly_fragment"
gap
11140. .11239
/estimated_length=100
misc_feature
11240. .13012
/note="assembly_fragment"
gap
13013. .13112
/estimated_length=100
misc_feature
13113. .15320
/note="assembly_fragment"
gap
15321. .15420
/estimated_length=100
misc_feature
15421. .16828
/note="assembly_fragment"
gap
16829. .16928
/estimated_length=100
misc_feature
16929. .18769
/note="assembly_fragment"
gap
18770. .18869
/estimated_length=100
misc_feature
18870. .20670
/note="assembly_fragment"
gap
20671. .20770
/estimated_length=100
misc_feature
20771. .22598
/note="assembly_fragment"
gap
22599. .23098
/estimated_length=100
misc_feature
23099. .23754
/note="assembly_fragment"

ery Match 18.1%; Score 338.8; DB 12; Length 149138;
ct Local Similarity 80.8%; Pred.No.1.9e-96;
tches 409; Conservative 0; Mismatches 92; Indels 5; Gaps 1;

507 TTTTTCCTTTTCCTTTTTCAGACAGAGCTCTGCTCTGTCGCCACAGCTGAGTGC 566
|||||
133048 TTTATTTCTTTGTTCTTTTTCAGATGAGCTCTGCTTTGTCGCCACAGCTGAGTGC 133107
|||||
567 AGTGCGATGATCTGCCCACTGCACCTCTGCTCTCCCGATTTCAGCGATTCTCTGCC 626
|||||

```

Db	Accession	Definition	Version	Source	Organism	Reference	Authors
Db	133108	GTGTGCAAGCGTCTAGCTCACTGCAACCTCGGCTCCAGGTTCAAGCAATTCCTCGCG					
Qy	627	TCAGCTTCCCAAGTACGCTGGATTTACAGGTGACGCCACCAACCAGC-----TTTTTT					
Db	133168	TCAGCTCTCTAGTAGCTGGATTTACAGCAATATCCACACCAACCAGTAAATTTTTTTT					
Qy	682	TATTTTGGAGACAGAGTCTTTCGCCCTGTGACCCAGGCTGGAGTACAGTGCATGATCTCAG					
Db	133228	TTTTTTTGAATGAGTCTTGTGCTGTGTGCGCCAGGCTGGAGTGCAGTGGCATGATCTCAG					
Qy	742	TTCACTGGGACCTTCCACTCTCCCGGGTTTCAAGCAATTTCTCTGCTTCAAGTCTCTGAGTAG					
Db	133288	CTCACTGACACCTCCGCTCCCGGGTTTCAAGGATTTCTTCCCTCAGCTTCAAGCTAGTGA					
Qy	802	CTAGGATTAACAGAAAGTGCACCTCCACGTTTCAGCTAATTTTTGTATTTTATAGAGATGTC					
Db	133348	CTGGGATTTACAGGTGTGTGCCACCAACCAGCTAATTTTTGTATTTTATAGTAGAAGCG					
Qy	862	GCTTTTGGCATGTGTGGCCATGCTAGTCTGGAACCCCGGACCTCAGGTATCCGCTGGCCT					
Db	133408	GGTTTCAACCATGTTGACCAAGCGTGTCTGCAACCCCTTGAACTCAGGTGATCTGCCCATCT					
Qy	922	TGGCTTCCCAAGTCTGGGATTTGAGAGCGTGAAGCATCGGCGCACGGGCTGAGCTATCCTC					
Db	133468	CTGCCACCAAGAGTCTGGGATTAAGGCTGAGACACCGCACCCGCGCTTACTTCTGCTCC					
Qy	982	TTTATGCTCTCTGGAAAGACTGCGGCTC 1007					
Db	133528	TCTATGACTCAATATTTTATGAGTTC 133553					
RESULT 6	AC127002	128829 bp DNA linear PRI 15-MAR-2003					
LOCUS	AC127002	Homo sapiens 12 BAC RP11.15J22 (Roswell Park Cancer Institute Human					
DEFINITION	AC127002	BAC library) complete sequence.					
VERSION	AC127002.3	GI:25281341					
SOURCE	HTG.						
ORGANISM	Homo sapiens (human)						
	Homo sapiens						
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;						
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;						
	Homidae; Homo						
	1 (bases 1 to 128829)						
	Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-ouman,F.R., Allen,C.,						
	Albriookes,S.L., Amaraltinge,H.C., Are,J.R., Ayele,M., Banks,T.,						
	Babariza,J., Benton,J., Blinaghe,K., Blankenburg,K., Bonnin,D.,						
	Bouch,J., Bowie,S., Brileva,M., Brown,E., Brown,M., Bryant,N.P.,						
	Buhay,C., Burch,P., Burkett,C., Burrill,K.L., Byrd,N.C.,						
	Carroll,T.F., Carter,M., Cavazos,S.R., Chacko,J., Chavez,D.,						
	Chen,G., Chen,R., Chen,Z., Chiu,D., Chowdhry,I., Christopoulos,C.,						
	Cleveland,L.C.D., Cox,C., Coyle,M.D., Dathorne,S.R., David,R.,						
	Dayla,M.L., Davis,C., Davy-Carroll,L., Dederich,D.A.,						
	DeLaney,K.R., Delgado,O., Denn,A.L., Ding,Y., Dinh,H.H.,						
	Douthwaite,K.J., Draper,H., Dugan-Rocha,S., Durbin,K.J.,						
	Earnhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Emerling,S.,						
	Escotto,M., Falls,T., Ferriguto,D., Flagg,N., Ford,J., Foster,P.,						
	Francis,P., Gabriel,A., Gao,J., Garcia,A., Garner,T., Garza,N.,						
	Gill,R., Gorrell,J.H., Guevara,W., Gunaratne,P., Hale,S.,						
	Hamilton,K., Han,J., Harris,K., Harris,K., Hart,M., Havlak,P.,						
	Hawes,A., Hernandez,J., Hernandez,O., Hodgson,A., Hognes,M.,						
	Holloway,C., Hollins,B., Homsji,F., Howard,S., Huber,J., Hulky,S.,						
	Hume,J., Ioshikhes,I., Jackson,L.E., Jacobson,B., Jia,Y.,						
	Johnson,R., Jolivet,S., Joudah,S., Karlson,B., Kelly,S., Khan,U.,						
	King,L., Korvah,J., Kovar,C., Kratovic,J., Kureshi,A., Landry,N.,						
	Leal,B., Lee,E., Lewis,L.C., Lewis,L., Li,J., Li,Z., Lichtarge,O.,						
	Lien,C., Liu,J., Liu,W., Loulesged,H., Lozado,R.J., Lu,X.,						
	Lucier,A., Lucier,R., Luna,R., Ma,J., Maheshwari,M., Mapus,P.,						
	MacDonald,I., Martin,R., Mattindale,A., Martinez,E., Massey,E.,						
	Mauniney,E., McLeod,M.P., Meador,M., Mei,G., Merscher,S.,						
	Mezker,M., Miller,A., Miner,G., Miner,Z., Mitchell,T.,						
	Monabbat,K., Montgomery,K.T., Morgan,M., Morris,S., Moser,M.,						

Neal, D., Nelson, D., Newton, J., Newton, N., Nguyen, A., Nguyen, N.,  
 Nguyen, N., Nickerson, E., Nwokweto, S., Oguh, M., Okwomodu, G.,  
 Ogunye, N., Oyedokun, R., Pace, A., Payton, B., Peery, J., Perez, L.,  
 Peters, L., Pickens, R., Primus, B., Pu, L., Quiles, M., Ren, Y.,  
 Rivers, M., Rojas, A., Rojibokan, I., Rolfe, M., Ruiz, S., Saverio, G.,  
 Scheraga, S., Scott, G., Shen, H., Shim, C., Shoemaker, N., Sisson, I.,  
 Sodergren, E., Sonaike, T., Sparks, A., Stanley, H., Stone, H.,  
 Sutton, A., Svatek, A., Tabor, P., Tamerisa, A., Tamerisa, K., Tang, H.,  
 Tansy, J., Taylor, C., Taylor, T., Telford, B., Thomas, N., Thomas, S.,  
 Umanan, K., Vasquez, L., Vera, V., Villalón, D., Vinson, R., Wang, Q.,  
 Wang, S., Ward-Moore, S., Warren, R., Washington, C., Wellington, S.,  
 Williams, G., Williamson, A., Wleczek, R., Wooder, S., Worley, K.,  
 Wu, C., Wu, Y., Wu, Y. F., Zhou, J., Zorrilla, S., Zuchowicz, R.,  
 Weinstein, G., and Gibbs, R.

Unpublished  
 2 (bases 1 to 128829)  
 Direct Submission  
 Worley, K.C.  
 Submitted (12-JUL-2002) Human Genome Sequencing Center, Department  
 of Molecular and Human Genetics, Baylor College of Medicine, One  
 Baylor Plaza, Houston, TX 77030, USA  
 3 (bases 1 to 128829)  
 Direct Submission  
 Worley, K.C.  
 Submitted (28-SEP-2002) Human Genome Sequencing Center, Department  
 of Molecular and Human Genetics, Baylor College of Medicine, One  
 Baylor Plaza, Houston, TX 77030, USA  
 4 (bases 1 to 128829)  
 Direct Submission  
 Worley, K.C.  
 Submitted (25-NOV-2002) Human Genome Sequencing Center, Department  
 of Molecular and Human Genetics, Baylor College of Medicine, One  
 Baylor Plaza, Houston, TX 77030, USA  
 5 (bases 1 to 128829)  
 Direct Submission  
 Worley, K.C.  
 Submitted (23-JAN-2003) Human Genome Sequencing Center, Department  
 of Molecular and Human Genetics, Baylor College of Medicine, One  
 Baylor Plaza, Houston, TX 77030, USA  
 6 (bases 1 to 128829)  
 Direct Submission  
 Worley, K.C.  
 Submitted (15-MAR-2003) Human Genome Sequencing Center, Department  
 of Molecular and Human Genetics, Baylor College of Medicine, One  
 Baylor Plaza, Houston, TX 77030, USA  
 On Nov 25, 2002 this sequence version replaced gi:23343647.  
 INFORMATION: <http://www.hgsc.bcm.tmc.edu/> or email  
[gc-help@bcm.tmc.edu](mailto:gc-help@bcm.tmc.edu)

CLONE LENGTH: This sequence does not necessarily represent the  
 entire insert of this clone. Overlapping regions of clones are only  
 sequenced and submitted once, so the sequence for the remainder of  
 the insert may be found in the record for the adjacent clones.  
 Overlapping clones are noted at the beginning and end of the  
 Features listing.

#### ANNOTATION OF FEATURES:

STSs are identified using ePCR (Genome Res. 7:541-550) searches  
 of a local database that includes entries from dbSTS, GDB, and  
 local mapping efforts.  
 Repeats are identified using RepeatMasker (A. Smit and P. Green,  
 unpublished.) for Human and Mouse sequences.  
 Genes and Region of sequence similarity are identified by BLAST  
 (Nuc. Acids Res. 25:3389-3402) similarity (expect < 1e-34) to the  
 EST and cDNA sequences. Genes demonstrate at least two exons  
 flanked by consensus splice sites that maintained sequence  
 continuity across the splice junctions. Sequences that are not  
 identical matches are annotated as similar.

SEQUENCING READ COVERAGE: Sequencing is completed to a minimum  
 standard of double strand coverage with a minimum of 2 clones and 2  
 reads with no ambiguities or 2 chemistries with a minimum of 2

clones and 3 reads with no ambiguities. If the sequence quality for  
 a region does not meet this standard, it will be indicated in the  
 annotation as low coverage.

QUALITY OF INDIVIDUAL BASES: This sequence meets stringent quality  
 standards - estimated error rate less than 1 per 10,000 bases.  
 Reports of lowest quality individual bases and measures of base  
 quality are listed below. Description of the metrics can be found  
 at URL:  
<http://www.hgsc.bcm.tmc.edu:8088/quality.info/genbank.annotation.ht>  
 ml.

#### FEATURES

source	location/Qualifiers
	1..128828
	/organism="Homo sapiens"
	/mol_type="genomic DNA"
	/db_xref="taxon:9606"
	/chromosome="12"
	/clone="RP11-15172"
	/complement(1..2000)
	/note="overlaps bases 1..2000 of clone AC093016"
	/function="clone overlap"
misc_feature	4..248
repeat_region	/rpt_family="AlusG/x"
repeat_region	499..791
repeat_region	/rpt_family="Alusx"
repeat_region	905..1203
repeat_region	/rpt_family="AlusG"
repeat_region	1499..1779
repeat_region	/rpt_family="Alusx"
repeat_region	1780..1809
repeat_region	/rpt_family="ATTG)n"
repeat_region	1877..2102
repeat_region	/rpt_family="MIR"
repeat_region	3349..3436
repeat_region	/rpt_family="CCG)n"
repeat_region	3477..3513
repeat_region	/rpt_family="GC_rich"
repeat_region	3529..3643
repeat_region	/rpt_family="CCCCG)n"
repeat_region	4895..5183
repeat_region	/rpt_family="Alusx"
repeat_region	5184..5248
repeat_region	/rpt_family="(TA)n"
repeat_region	/complement(5350..5655)
repeat_region	/rpt_family="AluY"
repeat_region	5656..5683
repeat_region	/rpt_family="AT_rich"
repeat_region	5686..5945
repeat_region	/rpt_family="AlusG"
repeat_region	5923..5925
repeat_region	/function="low quality"
repeat_region	/complement(6120..6421)
repeat_region	/rpt_family="AluY"
repeat_region	6703..6755
repeat_region	/rpt_family="HAL1"
repeat_region	/complement(6756..7068)
repeat_region	/rpt_family="AluDb"
repeat_region	7069..7196
repeat_region	/rpt_family="HAL1"
repeat_region	/complement(7237..7544)
repeat_region	/rpt_family="AluDo"
repeat_region	7598..7738
repeat_region	/rpt_family="AluDo"
repeat_region	7739..8015
repeat_region	/rpt_family="Alusx"
repeat_region	8016..8056
repeat_region	/rpt_family="(TAA)n"
repeat_region	8057..8225
repeat_region	/rpt_family="AluDo"
repeat_region	8242..8264
repeat_region	/rpt_family="(TTG)n"
repeat_region	/complement(8273..8385)
repeat_region	/rpt_family="FLAM_C"











	/organism="Homo sapiens"
	/mol_type="genomic DNA"
	/db_xref="taxon:9606"
	/chromosome="17"
	/map="17"
clone_RP1-104H15"	
clone_11b=RPCT-11 Human Male BAC	
182..231	
note="single clone coverage"	
repeat_region	complement(667..965)
repeat_region	/rpt_family="AlusC"
repeat_region	complement(1147..1227)
repeat_region	/rpt_family="L2"
repeat_region	2125..2168
repeat_region	/rpt_family="GC_rich"
repeat_region	4585..4625
repeat_region	/rpt_family="(TG)n"
repeat_region	7353..7544
repeat_region	/rpt_family="MER20"
repeat_region	7552..7671
repeat_region	/rpt_family="GA-rich"
repeat_region	complement(7888..7995)
repeat_region	/rpt_family="MERSB"
repeat_region	complement(8099..8409)
repeat_region	/rpt_family="AlusG"
repeat_region	8421..8456
repeat_region	/rpt_family="AT_rich"
repeat_region	complement(8457..8753)
repeat_region	/rpt_family="AlusX"
repeat_region	8489..8496
repeat_region	/note "<30 qual SINGL region"
repeat_region	8754..8787
repeat_region	/rpt_family="AT_rich"
repeat_region	complement(8788..8907)
repeat_region	/rpt_family="FLAM C"
repeat_region	complement(8935..9026)
repeat_region	/rpt_family="MR3"
repeat_region	9218..9273
repeat_region	/rpt_family="(TTC)n"
repeat_region	complement(9274..9571)
repeat_region	/rpt_family="AlusX"
repeat_region	9469..9476
repeat_region	/note "<30 qual SINGL region"
repeat_region	9482..9486
repeat_region	/note "<30 qual SINGL region"
repeat_region	9501..9560
repeat_region	/note "<30 qual SINGL region"
repeat_region	9587..9595
repeat_region	/note "<30 qual SINGL region"
repeat_region	9618..9623
repeat_region	/note "<30 qual SINGL region"
repeat_region	9777..9884
repeat_region	/rpt_family="MR"
repeat_region	complement(9885..10211)
repeat_region	/rpt_family="AlusX"
repeat_region	10212..10228
repeat_region	/rpt_family="MR"
repeat_region	10237..10378
repeat_region	/rpt_family="MER104"
repeat_region	10379..10680
repeat_region	/rpt_family="AlusX"
repeat_region	10681..10735
repeat_region	/rpt_family="AT_rich"
repeat_region	10818..10967
repeat_region	/rpt_family="AluDo"
repeat_region	10968..11265
repeat_region	/rpt_family="AlusG"
repeat_region	11266..11442
repeat_region	/rpt_family="AluDo"
repeat_region	11602..11902
repeat_region	/rpt_family="AlusX"
repeat_region	complement(11996..12227)
repeat_region	/rpt_family="L2"

```

repeat_region      complement(12220. ,12452)
                    /rpt_family="L2"
repeat_region      12544. ,12842
                    /rpt_family="AluSc"
repeat_region      complement(12886. ,13197)
                    /rpt_family="AluSx"
repeat_region      complement(13275. ,13576)
                    /rpt_family="AluDb"
repeat_region      13683. ,14116
                    /rpt_family="MLTIG"
repeat_region      complement(14117. ,14424)
                    /rpt_family="AluY"
repeat_region      14425. ,14454
                    /rpt_family="MLTIG3"
repeat_region      14505. ,14632
                    /rpt_family="MIR"
repeat_region      complement(14674. ,14962)
                    /rpt_family="AluSx"
repeat_region      complement(14963. ,15131)
                    /rpt_family="MLTIF"
repeat_region      complement(15137. ,15248)
                    /rpt_family="MLTIF"
repeat_region      complement(15249. ,15437)
                    /rpt_family="MIR"
repeat_region      15640. ,15933
                    /rpt_family="AluY"
repeat_region      complement(16136. ,16283)
                    /rpt_family="L2"

```

[illegible]









	repeat_region	/rpc_family="Alusq" complement(23811..24108) /rpc_family="Alubd" 24029..24061 /note="PCR product sequence only"
	unsure	
	repeat_region	/rpc_family="Alusg" complement(24158..24212)
	repeat_region	/rpc_family="Alusg" complement(24216..24528)
	repeat_region	/rpc_family="Alusg" complement(24552..24863)
	repeat_region	/rpc_family="Aluvy" 24828..25220
	unsure	/rpc_family="Alusg" 25064..25069
	unsure	/note="<30 qual SNGL region" 25117..25124
	repeat_region	/note="<30 qual SNGL region" complement(25261..25336)
	Query Match	17.7%; Score 331; DB 5; Length 101029;
	Best Local Similarity	80.1%; Pred. No. 5, 8e-94;
	Matches 403; Conservative	0; Mismatches 95; Indels 5; Gaps 1;
OY	500 GCCTTTTTCCTTTTCCTTTTCCTTTTTCCTTTTGAGACGAGAATCTTGTCTGTGGCCCAAGCCT	559
Db	87829 GGCTTTTTTTTTCCTTTTGGAATTGTTTTTTTGAGACAGAACCTCACCTCCCTCATTCAGGCCT	87888
OY	560 GGAATGACAGGGAGATATCTCTGCCACTGCAACCTCTGCCTCCCGAATTAAGCGATTC	619
Db	87889 GGATTTGACGGACAAGATCTCGGCTCACTGCAATCTTCTCTTCAGATTCAGTAGATTC	87948
OY	620 TCTGCTCAAGCCTCCCAAGTAACTGGAATTAAGGTGACGCGACCAACCAGC---	675
Db	87949 TCCTGCTCAAGCCTCCGAGAACTGGATTAACAGCGCGCGCACCAATGCCAGATA	88008
OY	676 -TTTTTTTAAATTGGAGACAGACTCTTGCCCTGTCAACCGCTGAGATCAAGTGCCATG	734
Db	88009 TTTTTTTTTTTTGGAGATGAGATCTGCTGTGTCAACCGCTGAGATGACAGTGCCGG	88068
OY	735 ATCTCAAGTTACAGCAACCTCCCACTCCCGGGGTTCAAAGAAATTCCTCGGCTCAAGTCCC	794
Db	88069 ATCTCGGCTACAGCAACCTCTGCTCTCGGGTTAAAGGATTTCTCTGCTCAAGCTCC	88128
OY	795 TGAGTACCTAGATTAACAGAAAGTGCACCTCCAGTTCAGCTAATTTTGTATTTTAACTA	854
Db	88129 AGAGTACCTCGATTAACAGGACACCGCACCAATGCCACCTAATTTTGTATTTTAACTA	88188
OY	855 GAGATGCGCTTTTGCCATGTTGGCCATGCTAATCTGAAAACCCCGAAGCTCAGGTATCCG	914
Db	88189 GAGACGGGGTTTTCACCATGTTGGCCAGGCTGATCTGAATCTCTGAACTCAGGTATCCA	88248
OY	915 CTGGCTTGGCTTCCTCCAAAGTGTGGGATTTGACAGGGGTAAAGCATTCGGCGCCAGGCTGAG	974
Db	88249 CCACCTCAAGCTTCCTAAAGTGTGGGATTTAAGAGGTAAGCACTGCGCCGCGGCAAGG	88308
OY	975 CTAATCTTAAATGCTCTGGAAG 997	
Db	88309 ATAAGTGTCTTGCAATTTAGCAAG 88331	
RESULT 15	AC087388/c	121017 bp DNA linear PRI 08-OCT-2002
LOCUS	AC087388	Homo sapiens chromosome 17, clone RP11-199P11, complete sequence.
DEFINITION	AC087388	
VERSION	AC087388.9	GI:23592178
KEYWORDS	HTG.	
SOURCE	Homo sapiens (human)	
ORGANISM	Homo sapiens	
REFERENCE	Bukaryova; Metzger; Chordata; Craniata; Vertebrates; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Homo. 1 (bases 1 to 121017)	



:HORS Birren,B., Nusbaum,C. and Lander,E.  
 :IE Homo sapiens chromosome 17, clone RP11-199F11  
 :ENCE Unpublished  
 :HORS 2 (bases 1 to 121017)  
 :HORS Birren,B., Bastien,V., Boguslavsky,L., Bouckgalter,B., Brown,A.,  
 :HORS Camarata,J., Campopiano,A., Choepel,Y., Colangelo,M., Collins,S.,  
 :HORS Collymore,A., Cooke,P., Dearellano,K., Dewar,K., Diaz,J.S.,  
 :HORS Dodge,S., Faro,S., Ferreira,P., Fitzhugh,W., Gage,D., Galagan,J.,  
 :HORS Gardyna,S., Glnde,S., Goyette,M., Graham,L., Grand-Pierre,N.,  
 :HORS Hagos,B., Hearford,A., Horton,L., Hulme,W., Iliev,I., Johnson,R.,  
 :HORS Jones,C., Karatas,A., Labocque,K., Lamazares,R., Landers,T.,  
 :HORS Lehoczy,J., Levine,R., Liu,G., Maclean,C., Macdonald,P.,  
 :HORS Marghis,N., Matthews,C., McCarthy,M., McKean,P., McKernan,K.,  
 :HORS McPheeters,R., Meldrim,J., Meneus,L., Mihova,T., Mlenga,V.,  
 :HORS Murphy,T., Naylor,J., Nguyen,C., Norbu,C., Norman,C.H.,  
 :HORS O'Connor,T., O'Donnell,P., O'Neill,D., Oliver,J., Peterson,K.,  
 :HORS Phunhang,P., Pierre,N., Pollara,V., Raymond,C., Retta,R.,  
 :HORS Rieback,M., Riley,R., Rise,C., Rogov,P., Roman,J., Rosetti,M.,  
 :HORS Roy,A., Santos,R., Schauer,S., Schupback,R., Seaman,S., Severy,P.,  
 :HORS Sougnez,C., Spencer,B., Stange-Thomann,N., Stojanovic,N.,  
 :HORS Straus,N., Subramanian,A., Talamas,J., Testaye,S., Theodore,J.,  
 :HORS Travers,M., Travis,N., Trigilio,J., Vassiliev,H., Viel,R., Vo,A.,  
 :HORS Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G., Zainoun,J.,  
 :HORS Zembek,L., Zimmer,A. and Zody,M.  
 :IE Direct Submission  
 :HORS Submitted (28-DEC-2000) Whitehead Institute/MIT Center for Genome  
 :HORS Research, 320 Charles Street, Cambridge, MA 02141, USA  
 :HORS 3 (bases 1 to 121017)  
 :HORS Birren,B., Nusbaum,C., Lander,E., Ali,A., Allen,N., Anderson,S.,  
 :HORS Bama,N., Bastien,V., Bloom,T., Boguslavsky,L., Bouckgalter,B.,  
 :HORS Camarata,J., Chang,J., Chazaro,B., Choepel,Y., Collymore,A.,  
 :HORS Cook,A., Cooke,P., Dearellano,K., Dewar,K., Diaz,J.S., Dodge,S.,  
 :HORS Faro,S., Ferreira,P., Fitzgerald,M., Gage,D., Galagan,J.,  
 :HORS Gardyna,S., Gord,S., Graham,L., Grand-Pierre,N., Hagos,B.,  
 :HORS Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C., Kamat,A.,  
 :HORS Karatas,A., Kells,C., Landers,T., Levine,R., Lindblad-Toh,K.,  
 :HORS Liu,G., Maclean,C., Macdonald,P., Major,J., Matthews,C.,  
 :HORS McCarty,M., Meldrim,J., Meneus,L., Mihova,T., Mlenga,V.,  
 :HORS Murphy,T., Naylor,J., Nguyen,C., Nicol,R., Norbu,C., Norman,C.H.,  
 :HORS O'Connor,T., O'Donnell,P., O'Neill,D., Oliver,J., Peterson,K.,  
 :HORS Phunhang,P., Pierre,N., Raymond,C., Retta,R., Rise,C., Rogov,P.,  
 :HORS Roman,J., Roy,A., Schauer,S., Schupback,R., Seaman,S., Severy,P.,  
 :HORS Smith,C., Spencer,B., Stange-Thomann,N., Stojanovic,N., Talamas,J.,  
 :HORS Testaye,S., Theodore,J., Topham,K., Travers,M., Vassiliev,H.,  
 :HORS Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Young,G., Zainoun,J.,  
 :HORS Zembek,L., Zimmer,A. and Zody,M.  
 :IE Direct Submission  
 :HORS Submitted (03-OCT-2002) Whitehead Institute/MIT Center for Genome  
 :HORS Research, 320 Charles Street, Cambridge, MA 02141, USA  
 :HORS 4 (bases 1 to 121017)  
 :HORS Birren,B., Nusbaum,C., Lander,E., Ali,A., Allen,N., Anderson,S.,  
 :HORS Bama,N., Bastien,V., Bloom,T., Boguslavsky,L., Bouckgalter,B.,  
 :HORS Camarata,J., Chang,J., Chazaro,B., Choepel,Y., Collymore,A.,  
 :HORS Cook,A., Cooke,P., Dearellano,K., Dewar,K., Diaz,J.S., Dodge,S.,  
 :HORS Faro,S., Ferreira,P., Fitzgerald,M., Gage,D., Galagan,J.,  
 :HORS Gardyna,S., Gord,S., Graham,L., Grand-Pierre,N., Hagos,B.,  
 :HORS Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C., Kamat,A.,  
 :HORS Karatas,A., Kells,C., Landers,T., Levine,R., Lindblad-Toh,K.,  
 :HORS Liu,G., Maclean,C., Macdonald,P., Major,J., Matthews,C.,  
 :HORS McCarthy,M., Meldrim,J., Meneus,L., Mihova,T., Mlenga,V.,  
 :HORS Murphy,T., Naylor,J., Nguyen,C., Nicol,R., Norbu,C., Norman,C.H.,  
 :HORS O'Connor,T., O'Donnell,P., O'Neill,D., Oliver,J., Peterson,K.,  
 :HORS Phunhang,P., Pierre,N., Raymond,C., Retta,R., Rise,C., Rogov,P.,  
 :HORS Roman,J., Roy,A., Schauer,S., Schupback,R., Seaman,S., Severy,P.,  
 :HORS Smith,C., Spencer,B., Stange-Thomann,N., Stojanovic,N., Talamas,J.,  
 :HORS Testaye,S., Theodore,J., Topham,K., Travers,M., Vassiliev,H.,  
 :HORS Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Young,G., Zainoun,J.,  
 :HORS Zembek,L., Zimmer,A. and Zody,M.  
 :IE Direct Submission  
 :HORS Submitted (08-OCT-2002) Whitehead Institute/MIT Center for Genome  
 :HORS Research, 320 Charles Street, Cambridge, MA 02141, USA  
 :HORS On Oct 8, 2002 this sequence version replaced g1:22597626.

All repeats were identified using RepeatMasker:  
 Smit, A.F.A. & Green, P (1996-1997)  
 http://ftp.genome.washington.edu/RM/RepeatMasker.html  
 ----- Genome Center  
 Center: Whitehead Institute/ MIT Center for Genome Research  
 Center code: WIBR  
 Web site: http://www-seq.wi.mit.edu  
 ----- Project Information  
 Center project name: L11969  
 Center clone name: 199\_F\_11  
 -----  
 Only the first 121.0 kilobases of this clone are being submitted.  
 The remainder overlaps accession number AC007421 [WICR project  
 L529].  
 -----  
 FEATURES  
 source  
 Location/Qualifiers  
 1..121017  
 /organism="Homo sapiens"  
 /mol\_type="genomic DNA"  
 /db\_xref="taxon:9606"  
 /chromosome="17"  
 /map="17"  
 /clone="RP11-199F11"  
 /clone\_1fb="RPCT-11 Human Male BAC"  
 628..635  
 /note="<30 qual SNGL region"  
 repeat\_region  
 798..1141  
 /rpt\_family="12"  
 1028..1033  
 /note="<30 qual SNGL region"  
 complement(1142..1443)  
 /rpt\_family="AluSx"  
 repeat\_region  
 1444..1969  
 /rpt\_family="12"  
 complement(2081..2250)  
 /rpt\_family="Charlie8"  
 complement(2386..2681)  
 /rpt\_family="AluY"  
 2749..2907  
 /rpt\_family="L1M4"  
 2915..2949  
 /rpt\_family="TG)n"  
 3005..3157  
 /rpt\_family="AluUb"  
 3158..3189  
 /rpt\_family="CA)n"  
 3198..3685  
 /rpt\_family="L1M4"  
 3686..3714  
 /rpt\_family="AT-rich"  
 3718..3993  
 /rpt\_family="AluSx"  
 4431..4498  
 /rpt\_family="HAL1"  
 4513..4846  
 /rpt\_family="HAL1"  
 4928..5002  
 /rpt\_family="AluS"  
 5064..5093  
 /rpt\_family="TAA)n"  
 complement(5101..5395)  
 /rpt\_family="AluSg"  
 5397..5579  
 /rpt\_family="HAL1"  
 complement(5772..6083)  
 /rpt\_family="AluSg"  
 6315..6617  
 /rpt\_family="AluUb"  
 7680..7840  
 /rpt\_family="L1MC4a"  
 7846..7961  
 /rpt\_family="FLAM\_C"

```

unsure                               7859. . 7865
                                     /note="<30 qual SNGL region"
repeat_region                       complement (8097. .8400)
                                     /rpt_family="AluSg"
unsure                               8289. . 8293
                                     /note="<30 qual SNGL region"
unsure                               8338. . 8344
                                     /note="<30 qual SNGL region"
                                     complement (9099 .9212)
repeat_region                       /rpt_family="MIR"
repeat_region                       complement (9291. .9570)
                                     /rpt_family="AluJo"
repeat_region                       complement (9585. .9746)
                                     /rpt_family="1PA13"
repeat_region                       9816. .10117
                                     /rpt_family="AluSx"
repeat_region                       complement (10792. .11012)
                                     /rpt_family="AluSg/x"
repeat_region                       11130. .11233
                                     /rpt_family="L2"
repeat_region                       complement (11429. .11726)
                                     /rpt_family="Aluub"
repeat_region                       complement (12660. .12962)
                                     /rpt_family="AluSx"
repeat_region                       13148. .13453
                                     /rpt_family="AluSp"
repeat_region                       13457. .13904
                                     /rpt_family="AluY"
repeat_region                       complement (14783. .14991)
                                     /rpt_family="MIR"
repeat_region                       complement (15683. .15986)
                                     /rpt_family="AluSx"
repeat_region                       16485. .16798
                                     /rpt_family="AluY"
repeat_region                       complement (18108. .18410)
                                     /rpt_family="AluSg"
repeat_region                       18938. .19057
                                     /rpt_family="AluJo"
repeat_region                       19058. .19361
                                     /rpt_family="AluSx"
repeat_region                       19372. .19673
                                     /rpt_family="Aluub"
repeat_region                       19681. .19998

```

Very Match	17.7%	Score 331	DB 5	Length 121017
Bit Local Similarity	82.1%	Pred. No. 6e-94		
Matches 395	Conservative	0	Mismatches 80	Indels 6
			Gaps	1

[illegible]

Db 33751 AGATGGGGTTTCAACGATGTTGGCCAGGCTGGTCTGGAATCTCTGATGTAATCCAC 33692  
 Oy 916 TGGCCTTGGGCTCTCCCAAAGTGTCTGGAAATTGCAGGCGTAGGCCATGCGGCGCAGGCTGAGC 975  
 Db 33691 CTGCTCTGGGCTCTCCCAAAGTGTCTGGAAATTACAAGGCGGTAGCCACCGCACCTCAGTCTCCCC 33632  
 Oy 976 T 976  
 Db 33631 T 33631

Search completed: June 22, 2006, 00:39:18  
Job time : 10376 secs

This page Blank (unpsot)

GenCore version 5.1.9  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

nucleic - nucleic search, using sw model

on: June 21, 2006, 21:42:46 ; Search time 9227 Seconds

(without alignments)  
11332.952 Million cell updates/sec

US-10-502-279-26

dict score: 1870  
1 atctgtcctcagaagtaac.....catcccgatccttcgtag 1870

ing table: IDENTITY NUC  
Gapop 10\_0, Gapext 1.0

ched: 48236798 seqs, 27959665780 residues

number of hits satisfying chosen parameters: 96473596

num DB seq length: 0

num DB seq length: 200000000

processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

base:

EST.\*  
1: gb\_ests1.\*  
2: gb\_ests3.\*  
3: gb\_ests4.\*  
4: gb\_ests5.\*  
5: gb\_ests6.\*  
6: gb\_ests7.\*  
7: gb\_ests8.\*  
8: gb\_ests9.\*  
9: gb\_ests10.\*  
10: gb\_ests11.\*  
11: gb\_ests12.\*  
12: gb\_ests13.\*  
13: gb\_ests14.\*  
14: gb\_ests15.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Hit	Score	Query Match	Length	ID	Description
1	365	19.5	365	1	AA837817
2	324.4	17.3	475	4	BX505056
3	309	16.5	484	2	BG548177
4	306.8	16.4	3143	6	BSM805999
5	305.8	16.4	648	4	CR217138
6	305	16.3	520	8	CR556374
7	304.8	16.3	648	14	DU636687
8	304.2	16.3	679	14	AG111125
9	303.6	16.2	4640	6	CR857699
10	303	16.2	515	9	DB062128
11	299.6	16.0	742	5	CP127609
12	298.8	16.0	620	13	CZ450138
13	298.8	16.0	743	3	BU629138
14	298.6	15.9	720	3	CR871743
15	297.2	15.9	537	2	BF876683
16	296.6	15.8	583	3	BQ007997
17	295.8	15.8	588	3	DB258133
18	295.6	15.8	573	9	DA180845
19	295.2	15.8	678	14	AG118253

20	294.8	15.8	608	7	AM970856
21	294	15.7	560	9	DA780305
22	294	15.7	8535	6	CR933630
23	293.6	15.7	541	4	BX508653
24	293.2	15.7	489	7	BF673854
25	292.4	15.6	514	13	CZ456835
26	292.4	15.6	1084	3	BM806108
27	292.4	15.6	1467	6	BC039500
28	292.2	15.6	559	9	DB196716
29	292.2	15.6	789	13	CZ461615
30	292.2	15.6	884	13	CZ459857
31	291.8	15.6	635	9	DB343878
32	291.8	15.6	635	11	AQ538583
33	291.8	15.6	648	14	AG128024
34	291.6	15.6	496	8	CN315352
35	291.4	15.6	550	9	DB102123
36	291.4	15.6	771	1	AA984258
37	290.6	15.5	680	3	BO181560
38	288.8	15.4	508	13	CZ456641
39	288.6	15.4	517	4	CA434698
40	288.4	15.4	579	4	BX646636
41	288	15.4	612	7	AM979073
42	287.8	15.4	3820	6	BSM803830
43	287.8	15.4	3820	6	BSM803831
44	287.2	15.4	718	14	CR958304
45	287	15.3	498	2	B1551454

## ALIGNMENTS

RESULT 1  
AA837817  
LOCUS  
DEFINITION  
AA837817  
0e39h03.s1 NCI CGAP Pr25 Homo sapiens CDNA clone IMAGE:1410965  
similar to contains Alu repetitive element; contains element MBR36  
repetitive element ; mRNA sequence.

ACCESSION  
AA837817  
VERSION  
AA837817.1 GI:2913474  
KEYWORDS  
SOURCE  
ORGANISM  
Homo sapiens (human)  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Hominidae; Homo.

REFERENCE  
1 (bases 1 to 365)  
NCI CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)  
Contact: Robert Strausberg, Ph.D.  
Email: cgaps-remail.nih.gov  
Tissue Procurement: Suzanne L. Topalian, M.D., Robert K. Bright,  
Ph.D.

CDNA Library Preparation: Stratagene, Inc.  
CDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
[www-bio.llnl.gov/bdnp/image/image.html](http://www-bio.llnl.gov/bdnp/image/image.html)  
Insert Length: 1141 Std Error: 0.00  
Seq primer: -40m13 fwd. RT from Amersham  
High quality sequence stop: 333.  
Location/Qualifiers  
1. 365  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="taxon:9606"  
/clone="IMAGE:1410965"  
/issue\_type="epithelium (cell line)"  
/lab\_host="SOLR (kanamycin resistant)"  
/clone\_lib="NCI CGAP Pr25"  
/note="Organ: Prostate; Vector: Bluescript SK-; Site\_1:"

## FEATURES

source





ITION NISC ng12907.y1 NICHD\_HS\_Ur2 Homo sapiens cDNA clone IMAGE:5938765  
 5', mRNA sequence.  
 :SION CB217138  
 :CN CB217138.1 GI:28265330  
 :RDS EST.  
 :S Homo sapiens (human)  
 :ANISM Homo sapiens  
 Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Eukaryota; Euthera; Euarchoptiles; Primates; Catarrhini;  
 Homidae; Homo.  
 1 (bases 1 to 648)  
 NCI-CCAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 :ORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 :E Tumor Gene Index  
 :RNAL Unpublished (1997)  
 :NT Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-remail.nih.gov  
 CDNA Library Preparation: The I.M.A.G.E. Consortium/LNL  
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium/LNL  
 DNA Sequencing by: National Institutes of Health Intramural  
 Sequencing Center (NISC)  
 Clone distribution: NCI-CCAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LNL at:  
 infoimage.llnl.gov  
 Plate: LHAM13167 row: N column: 14  
 Seq primer: M13RP1 reverse primer (ABI).  
 Location/Qualifiers  
 1..648  
 /organism="Homo sapiens"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:5938765"  
 /sex="female"  
 /tissue\_type="normal endometrium, mid-secretory phase,  
 cycle day 23"  
 /lab\_host="DH10B (T1-resistants)"  
 /note="Organ: uterus; Vector: pCMV-SPORT6.1.cdbd (Resgen,  
 Invitrogen Corporation); Site 1: NotI; Site 2: EcoRV;  
 Cloned unidirectionally from microquantity amounts of mRNA  
 from normal endometrial tissue (mid-secretory phase, cycle  
 day 23). Average insert size 1.6 kb. Library constructed  
 by Resgen (Invitrogen Corporation)."  
 :N

:ry Match 16.4%; Score 305.8; DB 4; Length 648;  
 : Local Similarity 82.1%; Pred. No. 3.1e-38;  
 :ches 380; Conservative 0; Mismatches 72; Indels 11; Gaps 2;  
 509 TTTTCTTTCTTTCTTTTGTGAGACAGAGCTTGTCTGTGCGCCAGGCTGAGAGCGAG 568  
 |||||  
 462 TTTTCTTTCTTTCTTTTGTGAGACAGAGTGTCTGTGCGCCAGGCTGAGAGCGAA 403  
 |||||  
 569 TGGCATGATCTCTGCCACATGCAAGCTGTGCTCCGAGATTCAAGGATTTCTGTGCTC 628  
 |||||  
 402 TGGCAGGCTCTCAGCTCACTGCAACTTGTCTTCCGGGTTCAAGTATTTCTTCTTCT 343  
 |||||  
 629 AGCCTCCAGTAGCTGGGATTACAGGTGCAAGCCACCAACCCAGC-----TTT 678  
 |||||  
 342 AGCCTCCGAGTAGCTGGGATTACAGGTGCAAGCCACCAACCCAGTATTTCTTCTT 283  
 |||||  
 679 TTTTATTTTGGAGACAGAGCTTGTGCGCTGTACCCAGGCTGAGATACAGTGGATATCT 738  
 |||||  
 282 CTTTCTTTTAAAGAGGAGTCTCACTGTGTGCGC-CAGGCTGAGATACAGTGGGATATCT 224  
 |||||  
 739 CAGTTACAGCGAGCTCCACCTCCCGGGTTCAAGCAATTTCTGTGCTGAGTCTCCGAG 798  
 |||||  
 223 TGGCTACAGCACTCTTGACTCTGGGTTTCAAGCAATTTCTGTGCTGAGTCTCCGAG 164  
 |||||  
 799 TAGCTAGATTACAGAGTGCACCTCCACGTTGAGCTAATTTTGTATTTTGTAGTAGAG 858  
 |||||  
 163 TAGCTGGAGATTACAGGTGGGTGCACACCAACCAAGCTAATTTTGTATTTTGTAGTAG 104

QY 859 TCCGCTTTTGGCATTGTCGCCCATGCTAGTCTGGAACCCCGACCTTCAGATGATCCGCTGG 918  
 |||||  
 DB 103 TGGGTTTTCACCATCTCGCCCAAGCTGTCTCGAATCTCTGACTGATGATCTGCCCA 44  
 |||||  
 QY 919 CCTTGCCCTCCCAAGTGTGGGATTTGACAGGCGTGCAGCATCG 961  
 |||||  
 DB 43 CCTGAGCTTCCCAAGTGTGGGATTTGACAGGCGTGCAGCATCG 1  
 |||||  
 RESULT 6  
 CR556374/c 520 bp mRNA linear EST 12-JUL-2004  
 LOCUS DKEZP45900431.p1 459 (synonym: pcor1) Pongo pygmaeus cDNA clone  
 DEFINITION DKEZP45900431 5', mRNA sequence.  
 ACCESSION CR556374  
 VERSION CR556374.1 GI:50249976  
 KEYWORDS EST.  
 SOURCE Pongo pygmaeus (orangutan)  
 ORGANISM Pongo pygmaeus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Euthera; Euarchoptiles; Primates; Catarrhini;  
 Homidae; Pongo.  
 1 (bases 1 to 520)  
 Koehrer,K., Beyer,A., Mewes,H.W., Weill,B., Amlid,C., Oeanger,A.,  
 Fobo,G., Han,W., and Wiemann,S.  
 Pongo pygmaeus mRNA (Koehrer,K., Beyer,A., Mewes,H.W., et al.)  
 UNPUBLISHED (2004)  
 COMMENT  
 TITLE  
 JOURNAL  
 MIPs  
 Ingolstaedter Landster, J., D-85764 Neuherberg, Germany  
 This is the 5' sequence of the clone insert from S. Wiemann,  
 Molecular Genome Analysis, German Cancer Research Center (DKFZ);  
 Email: s.wiemann@dkfz-heidelberg.de; sequenced by BMFZ (Biomedical  
 Research Center at the Heinrich-Heine-University,  
 Dueseldorf/Germany) within the cDNA sequencing consortium of the  
 German Genome Project. This clone (DKFZp45900431) is available at  
 the RZPD in Berlin. Please contact the RZPD, Ressourcenzentrum,  
 Heubnerweg 6, 14059 Berlin-Charlottenburg, GERMANY; Email:  
 clone@rzpd.de Further information about the clone and the  
 sequencing project is available at  
 http://mips.gsf.de/projects/cdna/.  
 Location/Qualifiers  
 1..520  
 /organism="Pongo pygmaeus"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:9600"  
 /clone="DKFZp45900431"  
 /tissue\_type="cortex"  
 /dev\_stage="adult"  
 /lab\_host="DH10B"  
 /note="Vector: pSPORT1.St1; Site\_1: SfiIa; Site\_2: SfiIb"

ORIGIN  
 Query Match 16.3%; Score 305; DB 8; Length 520;  
 Best Local Similarity 80.0%; Pred. No. 4.5e-38;  
 Matches 385; Conservative 0; Mismatches 87; Indels 9; Gaps 2;

QY 498 CTGCTTTTCTTTCTTTTCTTTTGTGAGACAGAGCTTGTCTGTGCGCCAGG 557  
 |||||  
 DB 491 CTATCATATCTATCTATCTAATTTTGTGAGACAGAGCTGTGCTGTGCACCAAG 432  
 |||||  
 QY 558 CTGAGTGCAGTGCAGTATCTTGTGCGCTGTGCAACTTGTGCTCCGAGATTCAAGCAT 617  
 |||||  
 DB 431 CTGAGTGCAGTGCAGTATCTTGTGCGCTGTGCAACTTGTGCTCCGAGATTCAAGCAT 372  
 |||||  
 QY 618 TCTCCGCTCAGGCTCCCAAGTGTGGATTACAGGTCAGGACCAACCCAGC-- 675  
 |||||  
 DB 371 TCTCCGCTCAGGCTCCCAAGTGTGGATTACAGGTCAGGACCAACCAACCTGCTGCTGA 312  
 |||||  
 QY 676 -----TTTATTTTGTGAGACAGAGCTTGTGCGCTGTGCAACTTGTGCTGAGTATCAGTGG 730  
 |||||  
 DB 311 ATTTTCTTTTCTTCTGAGACAGAGCTTGTGCTGTGCTCCCAAGCTGAGTGGGCTGG 252











/mol\_type="mRNA"  
/db\_xref="taxon:9606"  
/clone="UI-H-FLO-bdh-1-10-0-UI"  
/tissue\_type="Cell lines"  
/dev\_stage="Adult"  
/lab\_host="DH10B (Life Technologies)"  
/clone\_lib="NCI CGAP FLO"  
/note="Organ: Chondrosarcoma; Vector: pT73-Pac (Pharmacia) with a modified polylinker; Site 1: Ecor I; Site 2: Not I; NCI CGAP FLO is a cDNA library derived from a pool of mRNA obtained from 4 cell lines from grade III chondrosarcoma tissues. The library was constructed according to Bonaldi, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an Ecor I adaptor, digested with Not I, and cloned directionally into pT73-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dri)18 tail. The sequence tag for this library is GAGGTCGCTG. The cell line was provided by Dr James Martin from University of Iowa. TAG TISSUE=Human Chondrosarcoma Grade 3 cell line mix TAG LIB=UI-H-FLO TAG\_SEQ=GAGGTCGCTG"

Match 16.0%; Score 298.8; DB 3; Length 743;  
Local Similarity 76.1%; Pred. No. 3.8e-37; Indels 15; Gaps 1;  
Matches 388; Conservative 0; Mismatches 107;

512 TTTCTTTTCTTTTGTGAGACAGAGCTCTGCTCTGCTCCGCCAGGCTGAGTGCAGTGG 571  
1 TTTTCTTTTCTTTTGTGAGACAGAGCTCTGCTCTGCTCCGCCAGGCTGAGTGCAGTGA 60  
572 CAGATCTCTGCCCACTGCACTCTGCTCTGCTCCGCCAGGCTGAGTGCAGTGCAGTGC 631  
61 CGCAATCTCTGCTCACTGCAAGCTCCGCTCTGAGGTTCAATGCTCTCTGCTCTGCTGC 120  
632 CTCCCAAGTAGCTGGAGTACAGGTGCAAGCTCCCAACCAACCCAGC-----T 676  
121 CTCCCAAGTAGCTGGAGTACAGGTGCAAGCTCCCAACCAACCAACCAATTTTGCATTTT 180  
677 TTTTATTTTGTGAGACAGAGCTCTGCTCTGCTCCGCCAGGCTGAGTGCAGTGCAGTGC 726  
181 TTTATTTTGTGAGTCAAGTCTCGCTATATCCCAAGCTGAGTGCAGTGCAGTGCAGTGC 240  
737 CTCAATCTCTGCACTGCACTCTGCTCTGCTCCGCCAGGCTGAGTGCAGTGCAGTGC 736  
241 CTGAGCTCACTGCACTCTGCTCTGCTCCGCCAGGCTGAGTGCAGTGCAGTGCAGTGC 300  
797 AGTAGCTGAGTACAGAGTGCAGTCCCAAGTCAAGTCAATTTCTGCTCTGCTCTGCTCTG 856  
301 AGTAGCTGAGTACAGAGTGCAGTCCCAAGTCAAGTCAATTTCTGCTCTGCTCTGCTCTG 360  
857 GATGCGCTTTTGGCATTTGGCCATGCTAGTCTGGAACCCCGAATCTGAGTGCAGTGC 916  
361 GATGCGGCTTTGGCATTTGGCCATGCTAGTCTGGAACCCCGAATCTGAGTGCAGTGC 420  
917 GGCCTTGGCTCCCAAGTGCAGGCTGAGTGCAGGCTGAGTGCAGTGCAGTGCAGTGC 976  
421 TGCGCTGGCTCCCAAGTGCAGGCTGAGTGCAGGCTGAGTGCAGTGCAGTGCAGTGC 480  
977 ACTGCTTAGTCTGTGAAAGAGCTGCGGCT 1006  
481 TTGGGTTTTTTTGTAGTACAGATGGGCTT 510

14 14  
743/c CX871743 720 bp mRNA linear EST 03-FEB-2005  
HESCL\_60.G05.g1.A037 NIH\_MGC\_262 Homo sapiens cDNA clone  
IMAGE:7486284 5', mRNA sequence.

ACCESSION CX871743 GI:58554917  
VERSION CX871743.1  
KEYWORDS EST.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE NIH-MGC http://img.nci.nih.gov/.  
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)  
TITLE Unpublished (1999)  
JOURNAL Contact: Daniela S. Gerhard, Ph.D.  
COMMENT Office of Cancer Genomics  
National Cancer Institute / NIH  
Bldg. 31 Rm10A07 Bethesda, MD 20892  
Email: cga@bds-remail.nih.gov  
Tissue Procurement: Brecken, Inc.  
cDNA Library Preparation: Express Genomics, Inc.  
DNA Sequencing by: The I.M.A.G.E. Consortium (LIML)  
University of Georgia  
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LIML at:  
http://image.llnl.gov  
Plate: LIM15813 row: n column: 10  
Seq primer: JENREV (CAGGAACGCTATGACC)  
High quality sequence stop: 720.  
Location/Qualifiers  
1..720  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="taxon:9606"  
/clone="IMAGE:7486284"  
/sex="male"  
/tissue\_type="embryonic stem"  
/cell\_type="human embryonic stem cells"  
/cell\_line="BG01"  
/lab\_host="DH10B-T1 phage-resistant E. coli"  
/clone\_lib="NIH MGC 262"  
/note="Vector: pExpress-1; Site 1: NotI; Site 2: EcoRV; RNA obtained from human embryonic stem cells isolated from the inner cell mass of blastocyst stage embryos and differentiated to an early neural progenitor cell type. Cell line id and NIH Registry designation is BG01. Positive for Nestin and Musashi expression. Passage number 18. cDNA primed using oligo-dT primer: 5'-pACTGTTTCTAATGCGCAGGCGGCCCT(725-3' and cloned into the EcoRV/NotI sites of pExpress-1. This primary library is non-normalized (normalized primary library is NIH MGC 259). It was constructed by Express Genomics (Frederick, MD). Sequence ends have been trimmed to exclude vector and regions below phred quality 16. Note: this is a Mammalian Gene Collection library."

# FEATURES

Source

## ORIGIN

Query Match 16.0%; Score 298.6; DB 9; Length 720;  
Best local Similarity 79.1%; Pred. No. 4.1e-37;  
Matches 406; Conservative 0; Mismatches 99; Indels 8; Gaps 4;

484 AGATTAGAGCTGCTGCTCTTTTCTTTTCTTTTCTTTTGTGAGACAGAGTCTTG 543  
634 AGCTGGAGACTACAGTGTGTTGTTGTTGTTGTTTGTGTTTGTGAGACAGAGTCT-- 577  
544 CTCTGTCGCCAGGCTGAGTGCAGTGCATGCTCTGCCCACTGCAACCTCTGCTCC 603  
576 CACTGTACCCAGGCTGAGTGCAGTGCATGCTCTGCCCACTCTGCTCTCC 517  
604 CGGATTCAAGGCAATCTCTGCTCAGCTCCCAAGTACAGTGCAGTGCAGTGCAGTGC 663  
516 CGGGTTCAAGTAAATTTCTGCTCAGCTCCCAAGTACAGTGCAGTGCAGTGCAGTGC 457  
664 ACCACACCAAGC---TTTTTTTATTTTGTGAGACAGAGTCTTGGCTCTGACCAAGGCTGG 720

456 ACATAGCCCTGGCTAAATTTTCTTTTCTTTTGTAGACAGAGTCTGCTCTGTGCGCCAGGCTGG 397

721 AGTACAGTGGCATGATCTCAATTCACTGCGACCTTCCACCTCCCGGGTTCAAGCAATTCTC 780

396 AGTGCAGGTGGTGGCTTTGGCTCACTGCAACACTCCGGCTCCAGATTCAAGCCATTCTC 337

781 CTGGCCACATCTCTGAGTAGAGTAAAGAAAGTGACCACTCCAGCTTAGGCTAA-TT 839

336 CTGCTCCTGAGCTCTTAGTAGTGGAGCTGGACCTACAGCGGCCGCCGACCAAGCCAGCTAAATTT 277

840 TTTGTATTTTATAGATAGCGCTTTTTCGCAATGTTGGCCATCTAGTCTGAAACCCGG 899

276 TTTGTATTTTATAGATAGAGTGGGGTTTCACTGTGTAGCAAGATGATCTGATCTCTC 217

900 ACCTCAGGTGATCCGCTGGCTTTGGCTCCCAAGTGTCTGGGATTTGCAGGGGTAGGCAT 959

216 ACCTC--GGATCCACCGCCTCGGCTCTTAAAGTGTGGATTTACAGGGGTAGTCAT 159

960 CGCGCCAGGCGCTGAGCTACTCTTTAGTCTCTG 992

158 CGATCCGGGAGCACTTCTCCCTTCTGTCTATG 126

537 bp mRNA linear EST 17-JAN-2001

BF876683 537 bp mRNA linear EST 17-JAN-2001

0V0-ET0149-131100-496-b06 ET0149 Homo sapiens cDNA, mRNA sequence.

BF876683

BF876683.1 GI:12266722

EST.

Homo sapiens (human)

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.

1 (bases 1 to 537)

Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,, Naga,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.P., Goldman,G.H., Carvalho,A.F., Matsukuma,A., Bala,G.S., Simpson,D.H.,, Brunstein,A., deoliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.

Shotgun sequencing of the human transcriptome with ORF expressed sequence tags

Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

10737800

Contact: Simpson A.J.G.

Laboratory of Cancer Genetics

Ludwig Institute for Cancer Research

Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil

Tel: +55-11-2704922

Fax: +55-11-2707001

Email: asimpson@ludwig.org.br

This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL (<http://www.ludwig.org.br/scripts/gethtml2.pl?fl=QV0&2=QV0-ET0149-131100-496-b06&3=2000-11-13&4=1>)

Seq primer: puc 18 forward

High quality sequence stop: 13

High quality sequence stop: 534.

Location/Qualifiers

1. .537

## ORIGIN

profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

Query Match	Score	DB 2;	Length
15.98;	297.2;	DB 2;	5377;
78.48;	750.0;	DB 2;	5377;
78.48;	750.0;	DB 2;	5377;

Matches 373; Conservative 0; Mismatches 93; Indels 10; Gaps 1.

519 TCTTTTGTGAGACAGAGTCTTGCTCTGTCGCCAGGCTGGAGTCAGTCGCGCATGATC 578

Db 521 TTTT TTTT TGAGACAGATTCACTCTGTTGCCCAAGCCGGAGTGCAGTGGTGATC 462

579 TCTGCCCACTGCAACCTCTGCCTCCGGATTCAAGGATTCTCCTGCCTCAGCCTCCCA 638

Db 461 GCAGCTCACTGCAACCTCCGCCCTCCAGATTCCAGCAATTCTTCCACCTCAGCCTCCTGA 402

639 GTAGCTGGATTACAGGTGCACGCCACACACCAGCT-----TTTATTATTTC 688

Db 401 GTAGCTAGGATTACAGACGTGCACCACCATTGCCCAGCTAATTTATTATTATTTT 342

689 GAGACAGAGTCTTGCCCTGTCAACCAGCGTGAGTACAGTGGCATGATCTCAGTTCACCTG 748

Db 341 GAGACGGAGTTTCACTCTGTCAACCAGGCTGGAGTGCAGTGGCACTGTCTCGGTTACTG 282

749 CGACCTCACCTCCGGGTTCAAGCAATTCTCCCTGCTCAGTCTCCCTGAGTAGCTAGGAT 808

Db 281 CAACCTCTGCCTCCCAAGGTTCAAGCAATTCTCCTGccctCGGccTccCAAGTAgctGGAC 222

809 TACAGAAGTGCACCTCCACGTCAGCTAATTGTGTAATTTAGTAGAGATGCCCTTTG 868

Db 221 TACAGCGGTGCGCAACACGCCAGCTATTTTGTATTTTAGTAGAGACAGGGTTTG 162

869 CCATGTTGGCCATGCTAGTCTGGACCCCGACCCTCAGGTGATCCGCTGGCCCTTGGCTTC 928

D5 161 CCATGTTGCCCTAGGCTGTTCTCAACCTCTGACCTCAGGTAATCCACCTGCTTGGCTTC 102

929 CCAAGTGTGGATTGCAAGCGTAGCCATCGCGCAAGCCTAGCTACTCTT 984

```
Search completed: June 22, 2006, 01:59:31
Job time : 9233 secs
```

```

/organism="Homo sapiens"
/mol type="mrna"
/db xref="taxon:9606"
/dev stage="Adult"
/clone_lib="E0149"
/note="Organ: lung_tumor; Vector: puc18; Site:1: SmaI,
Site:2: SmaI; A mini-library was made by cloning products
derived from OJST5 PCR (U.S. Letters Patent application
no. 196,716 - Ludwig Institute for Cancer Research)"

```









975 CTACCTCTTGTCTGTGAAGAGCTCGGCTCAGAGAAATCAACGCT 1022  
 5517 TTGCTTTCTTTTCTTTTCTTGAGACAGTCTCTCTCAACCCAGGCT 5564

17 4  
 9-949-002-825/c  
 Sequence 825, Application US/09949002  
 Patent No. 6900016  
 Internal Information:

APPLICANT: VENTER, J. Craig et al.  
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
 WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION  
 TITLE OF INVENTION: AND USUS THEROP  
 FILE REFERENCE: CL000790  
 CURRENT APPLICATION NUMBER: US/09/949, 002  
 PRIOR FILING DATE: 2000-01-28  
 PRIOR APPLICATION NUMBER: 60/231,401  
 PRIOR FILING DATE: 2000-09-08  
 NUMBER OF SEQ ID NOS: 10823  
 SOFTWARE: FastSeq for Windows Version 4.0  
 ID NO 825  
 LENGTH: 45819  
 TYPE: DNA  
 ORGANISM: Human  
 9-949-002-825

17.3% Score 323.6; DB 3; Length 45819;  
 Local Similarity 82.9%; Pred. No. 5.9e-79;  
 Matches 383; Conservative 0; Mismatches 74; Indels 5; Gaps 1;

517 TTTCTTTTGTGAGACAGAGTCTGTGCTGTGCTGAGGCTGAGGAGTGA 576  
 23998 TTTTCTTTTGTGAGAGTCTGTGCTGTGCTGAGGCTGAGGAGTGA 23939  
 577 TCTGTGCACTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 636  
 23938 TCTGAGCTGCACTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 23879  
 637 AACTAGCTGGAGTACAGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAG 691  
 23878 AAGTAGCTGGAGTACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 23819  
 692 ACAGAGCTGTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 751  
 23818 ATGAGCTGTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 23759  
 752 CTTCCACCTTCCGCGGTTCAGAGCAATCTCTGCTGCTGCTGCTGCTG 811  
 23758 CTTCCGCTTCCGCGGTTCAGAGCAATCTCTGCTGCTGCTGCTGCTG 23699  
 812 AGAAGTCACTTCCGCGGTTCAGAGCAATCTCTGCTGCTGCTGCTGCTG 871  
 23698 AGGTGCCACACACACGCGCGGTTCAGAGCAATCTCTGCTGCTGCTG 23639  
 872 TGTGGCATGCTGTGAGACCGCGCGGTTCAGAGCAATCTCTGCTGCTG 931  
 23638 TGTGGCATGCTGTGAGACCGCGCGGTTCAGAGCAATCTCTGCTGCTG 23579  
 932 AAGTGTGGATGCTGTGAGACCGCGCGGTTCAGAGCAATCTCTGCTG 973  
 23578 AAGTGTGGATGCTGTGAGACCGCGCGGTTCAGAGCAATCTCTGCTG 23537

17 5  
 9-345-882-1/c  
 Sequence 1, Application US/09345882  
 Patent No. 6393373  
 Internal Information:  
 APPLICANT: Bougueteloret, Lydie  
 TITLE OF INVENTION: A NUCLEIC ACID ENCODING A RETINOBLASTOMA BINDING PROTEIN (RBP-7)  
 TITLE OF INVENTION: AND POLYMORPHIC MARKERS ASSOCIATED WITH SAID NUCLEIC ACID.

FILE REFERENCE: GENSET.031A  
 CURRENT APPLICATION NUMBER: US/09/345,882  
 CURRENT FILING DATE: 1999-06-30  
 PRIOR APPLICATION NUMBER: US 60/091,315  
 PRIOR FILING DATE: 1998-06-30  
 PRIOR APPLICATION NUMBER: US 60/111,909  
 PRIOR FILING DATE: 1998-12-10  
 NUMBER OF SEQ ID NOS: 140  
 SOFTWARE: Patent.pm  
 SEQ ID NO 1  
 LENGTH: 162450  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 72794  
 OTHER INFORMATION: 5-124-273 : polymorphic base A or G  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 88073  
 OTHER INFORMATION: 5-127-261 : polymorphic base A or C  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 90842  
 OTHER INFORMATION: 99-1437-325 : polymorphic base A or G  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 93714  
 OTHER INFORMATION: 5-128-60 : polymorphic base deletion of GT  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 97122  
 OTHER INFORMATION: 99-1442-224 : polymorphic base G or T  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 97152  
 OTHER INFORMATION: 5-129-144 : polymorphic base deletion of T  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 99098  
 OTHER INFORMATION: 5-130-257 : polymorphic base A or G  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 99117  
 OTHER INFORMATION: 5-130-276 : polymorphic base A or G  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 103806  
 OTHER INFORMATION: 5-131-395 : polymorphic base A or T  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 106940  
 OTHER INFORMATION: 5-133-375 : polymorphic base insertion of A  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 108106  
 OTHER INFORMATION: 5-135-155 : polymorphic base insertion of A  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 108149  
 OTHER INFORMATION: 5-135-198 : polymorphic base insertion of GTTT  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 108308  
 OTHER INFORMATION: 5-135-357 : polymorphic base A or G  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 108471  
 OTHER INFORMATION: 5-136-174 : polymorphic base C or T  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 134134  
 OTHER INFORMATION: 5-140-120 : polymorphic base C or T



```

786 TCAGTCTCCGTAGTACGTAGATTAACAGAAAGGCACTCCACAGTTACACTAATTTTT--G 843
101708 TACGCTCTCTGAGTACTGAGACTAGACAGCGCTCCACCAACATGCCCCGACTAATTTTTGG 101649
844 TATTTTAGTAGAGATGCGCTTTTGGCATGTTTGGCCATGCTAGTGTGAACCCCGAAGCT 903
904 CAGGTGATCCGCTGCGCTTGGGCTCCGCAAGTGTGGGATTTGCAAGGCGTGAACCATGGCG 963
101648 TGTATTTTAGTAGAGACAGAGGTTTCAACATGTTAGCCAGATGAGTCTCATCTCTGAACT 101589
101588 CAGGTATATGCTGCTGTGGGCTCCCAAGTGTGAGATTAACAGGCGTGAACCAACGCG 101529
964 CCAGGCTGAGCTA 977
101528 CCCAGCCACACCCA 101515

1.T 6
0--071-179-1/c
quence 1, Application US/10071179
tent No. 6908988
RRAL INFORMATION:
PPLICANT: Bougueleret, Lydie
TILE OF INVENTION: A NUCLEIC ACID ENCODING A RETINOBLASTOMA BINDING PROTEIN (RBP-7)
FILE OF INVENTION: AND POLYMORPHIC MARKERS ASSOCIATED WITH SAID NUCLEIC ACID.
ILE REFERENCE: GENSET.031A
URRENT APPLICATION NUMBER: US/10/071,179
URRENT FILING DATE: 2002-02-07
RIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/345,882
RIOR FILING DATE: EARLIER FILING DATE: 1999-06-30
RIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/091,315
RIOR FILING DATE: EARLIER FILING DATE: 1998-06-30
RIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/111,509
RIOR FILING DATE: EARLIER FILING DATE: 1998-12-10
MBER OF SEQ ID NOS: 140
FTWARE: Patent.pm
Q ID NO 1
LENGTH: 162450
YPE: DNA
ORGANISM: Homo sapiens
EATURE:
NAME/KEY: allele
LOCATION: 72794
OTHER INFORMATION: 5-124-273 : polymorphic base A or G
EATURE:
NAME/KEY: allele
LOCATION: 88073
OTHER INFORMATION: 5-127-261 : polymorphic base A or C
EATURE:
NAME/KEY: allele
LOCATION: 90842
OTHER INFORMATION: 99-1437-325 : polymorphic base A or G
EATURE:
NAME/KEY: allele
LOCATION: 93714
OTHER INFORMATION: 5-128-60 : polymorphic base deletion of GT
EATURE:
NAME/KEY: allele
LOCATION: 97122
OTHER INFORMATION: 99-1442-224 : polymorphic base G or T
EATURE:
NAME/KEY: allele
LOCATION: 97152
OTHER INFORMATION: 5-129-144 : polymorphic base deletion of T
EATURE:
NAME/KEY: allele
LOCATION: 99098
OTHER INFORMATION: 5-130-257 : polymorphic base A or G
EATURE:
NAME/KEY: allele
LOCATION: 99117
OTHER INFORMATION: 5-130-276 : polymorphic base A or G
FEATURE:

```

```

1 NAME/KEY: allele
2 LOCATION: 103806
3 OTHER INFORMATION: 5-131-395 : polymorphic base A or T
4 FEATURE:
5 NAME/KEY: allele
6 LOCATION: 106940
7 OTHER INFORMATION: 5-133-375 : polymorphic base insertion of A
8 FEATURE:
9 NAME/KEY: allele
10 LOCATION: 108106
11 OTHER INFORMATION: 5-135-155 : polymorphic base insertion of A
12 FEATURE:
13 NAME/KEY: allele
14 LOCATION: 108149
15 OTHER INFORMATION: 5-135-198 : polymorphic base insertion of GTTT
16 FEATURE:
17 NAME/KEY: allele
18 LOCATION: 108308
19 OTHER INFORMATION: 5-135-357 : polymorphic base A or G
20 FEATURE:
21 NAME/KEY: allele
22 LOCATION: 108471
23 OTHER INFORMATION: 5-136-174 : polymorphic base C or T
24 FEATURE:
25 NAME/KEY: allele
26 LOCATION: 134134
27 OTHER INFORMATION: 5-140-120 : polymorphic base C or T
28 FEATURE:
29 NAME/KEY: allele
30 LOCATION: 134362
31 OTHER INFORMATION: 5-140-348 : polymorphic base insertion of A
32 FEATURE:
33 NAME/KEY: allele
34 LOCATION: 134374
35 OTHER INFORMATION: 5-140-361 : polymorphic base insertion of CA
36 FEATURE:
37 NAME/KEY: allele
38 LOCATION: 146328
39 OTHER INFORMATION: 5-143-84 : polymorphic base A or G
40 FEATURE:
41 NAME/KEY: allele
42 LOCATION: 146345
43 OTHER INFORMATION: 5-143-101 : polymorphic base A or C
44 FEATURE:
45 NAME/KEY: allele
46 LOCATION: 150329
47 OTHER INFORMATION: 5-145-24 : polymorphic base A or G
48 FEATURE:
49 NAME/KEY: allele
50 LOCATION: 160031
51 OTHER INFORMATION: 5-148-352 : polymorphic base G or T
52 FEATURE:
53 NAME/KEY: allele
54 LOCATION: 72771..72817
55 OTHER INFORMATION: polymorphic fragment 5-124-273 SEQ ID30
56 FEATURE:
57 NAME/KEY: allele
58 LOCATION: 72771..72817
59 OTHER INFORMATION: polymorphic fragment 5-124-273 SEQ ID31
60 FEATURE:
61 NAME/KEY: allele
62 LOCATION: 88050..88096
63 OTHER INFORMATION: polymorphic fragment 5-127-261 SEQ ID31
64 FEATURE:
65 NAME/KEY: allele
66 LOCATION: 88050..88096
67 OTHER INFORMATION: polymorphic fragment 5-127-261 SEQ ID32
68 FEATURE:
69 NAME/KEY: allele
70 LOCATION: 90819..90865
71 OTHER INFORMATION: complement polymorphic fragment 99-1437-325 SEQ ID49
72 FEATURE:
73 NAME/KEY: allele

```

```

>OTHER INFORMATION: complement polymorphic fragment 99-1437-325 SEQ ID70
>FEATURE:
>NAME/KEY: allele
>LOCATION: 93690..93736
>OTHER INFORMATION: polymorphic fragment 5-128-60 SEQ ID32
>FEATURE:
>NAME/KEY: allele
>LOCATION: 93690..93736
>OTHER INFORMATION: polymorphic fragment 5-128-60 SEQ ID53
>FEATURE:
>NAME/KEY: allele
>LOCATION: 97099..97145
>OTHER INFORMATION: polymorphic fragment 99-1442-224 SEQ ID50
>FEATURE:
>NAME/KEY: allele
>LOCATION: 97099..97145
>OTHER INFORMATION: polymorphic fragment 99-1442-224 SEQ ID71
>FEATURE:
>NAME/KEY: allele
>LOCATION: 97130..97177
>OTHER INFORMATION: polymorphic fragment 5-129-144 SEQ ID54
>FEATURE:
>NAME/KEY: allele
>LOCATION: 99075..99121
>OTHER INFORMATION: polymorphic fragment 5-130-257 SEQ ID34
>FEATURE:
>NAME/KEY: allele
>LOCATION: 99075..99121
>OTHER INFORMATION: polymorphic fragment 5-130-257 SEQ ID35
>FEATURE:
>NAME/KEY: allele
>LOCATION: 99094..99140
>OTHER INFORMATION: polymorphic fragment 5-130-276 SEQ ID36
>FEATURE:
>NAME/KEY: allele
>LOCATION: 103783..103828
>OTHER INFORMATION: polymorphic fragment 5-131-395 SEQ ID36
>FEATURE:
>NAME/KEY: allele
>LOCATION: 103783..103828
>OTHER INFORMATION: polymorphic fragment 5-131-395 SEQ ID57
>FEATURE:
>NAME/KEY: allele
>LOCATION: 106918..106966
>OTHER INFORMATION: polymorphic fragment 5-133-375 SEQ ID37
>FEATURE:
>NAME/KEY: allele
>LOCATION: 106918..106966
>OTHER INFORMATION: polymorphic fragment 5-133-375 SEQ ID58
>FEATURE:
>NAME/KEY: allele
>LOCATION: 108084..108130
>OTHER INFORMATION: polymorphic fragment 5-135-155 SEQ ID38
>FEATURE:
>NAME/KEY: allele
>LOCATION: 108084..108130
>OTHER INFORMATION: polymorphic fragment 5-135-155 SEQ ID59
>FEATURE:
>NAME/KEY: allele
>LOCATION: 108127..108177
>OTHER INFORMATION: polymorphic fragment 5-135-198 SEQ ID39
>FEATURE:
>NAME/KEY: allele
>LOCATION: 108127..108177

```

[illegible]

```

451 |TTCAGCTCACTGCAACCTCCGCTCCCGGTTCCAAAGATTCTCGCTCAGCTCC|
637 |AAGTAGCTGGATTATACAGTGCACGACCAACCCAGC-----TTTTTATTTGAG|
391 |AAGTAGCTGGATTATACAGTGCACGACCACTGCGCCCAAGCTAATTTTATTTTGG|
692 |ACAGAGCTCTTGCCCTGTCAACCCAGCTGAGTACAGTGCATGATCTCACTGCGA|
331 |ATGAGAGCTCACTGTGTGCTAGGGTGAATGAGTGGGCAATCTCACTGCTGCA|
752 |CTTCCAGCTCCCGGTTCAAGCAATTCTCTGCTCTGCTCTGAGTAGTAGATTAC|
271 |CTTCCGCTCCCAAGTTCATGATCTCTGCTCAGCTCCCTGAGTAGTGGATTAC|
812 |AGAAGTCACTCAGCTCAGCTCAATTTTATTTATTTAGTAGAGATGGCTTTGCA|
211 |AGGTGCCACACACGCGCCAGCTAATTTTGTATTTTATTTAGTAGAGAGGCTTGGCA|
872 |TGTGGCCATCTAGTGTGAACCCCGAAGCTCAGTGTATCCGCTGCGCTTGCCTCCA|
151 |TGTGGCCAGGCTGTGCTGCACTGACCTGAGTGTACACCGCTTCCGCTCCCA|
932 |AAGTCTGGGATTGACAGCGCTGAGCCATCGCGCCAGGCTTGA|
91 |AAGTCTGGGATTATACAGGATGAGCCAGCGCGCCGCGCAGCA|

```

```

IT 8
9-949-016-13256
quence 13256, Application US/09949016
tent No. 6812339
IBERAL INFORMATION:
PLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
Q ID NO 13256
LENGTH: 50368
TYPE: DNA
ORGANISM: Human
9-949-016-13256

```

```

Query Match 17.2%; Score 321.8; DB 3; Length 50368;
at Local Similarity 81.8%; Pred. No. 2e-78;
tches 387; Conservative 0; Mismatches 77; Indels 9; Gaps 1;
507 TTTTCTTTCTTTCTTTTGTGAGCAGAGTCTGCTGCTGCGCCAGGCTGGAGTGC
48915 TTAATTTTCTTTCTTTTGTGAGCAGAGTCTGCTGCTGCGCCAGGCTGGAGTGC
567 AGTGCATGATCTCTGCCAAGTCACTGCTGCTGCGGATTCAAGCAATCTCTGCC
48975 AGTGCATGATCTCTGCCAAGTCACTGCTGCTGCGGATTCAAGCAATCTCTGCC
627 TCGAGCTCCCAAGTCTGGATTACAGTGCACGCAACCAACCCAGC-----TT
49035 TTAGCTCCCTGAGTAGCTGGATTACAGGATGAGACACCTGGCTAATTTTCTT
678 TTTTATTTTGAAGACAGAGTCTTGGCTGCAACCCAGGCTGGAGTAGAGTGCATGC
49095 TTTTATTTTGAAGACAGAGTCTTCTTCTGCAACCCAGGCTGGAGTAGAGTGCATGC

```

```

QY 738 TCAAGTCACTGCAACCTCCAGCTCCCGGTTCAAGCAATTTCTGCTCAGTCTCTGA
Db 49155 TCGGTTCATGCAACCTCCAGCTCCCGGTTGAGCAATTTCTGCTCAGGCTCCCTA
QY 798 GTAGCTGAGATTACAGAGTGCACCTCCAGCTTCAAGTATTTTGTATTTTGTAGAG
Db 49215 GTAGCTGAGATTACAGAGTGCACCTCCAGCTTCAAGTATTTTGTATTTTGTAGAG
QY 858 ATGCGCTTTTGCATGTTGGCCATGATGATCTGGAACCCCGAAGCTCAGGTGATCCGCTG
Db 49275 ATGCGCTTTTGCATGTTGGCCATGATGATCTGGAACCCCGAAGCTCAGGTGATCCGCTG
QY 918 GCTTGGCTCCCAAGTGTGGATTGACAGGCTGAGACCATGCGCCAGGCC
Db 49335 GTCTCGGCTCTCAAGTGTGGATTGACAGGATGAGCATGAGCATGCGCTGCGCC

```

## RESULT 9

```

US-09-949-002-765
Sequence 765, Application US/09949002
Patent No. 6900016
GENERAL INFORMATION:
PLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
FILE REFERENCE: CL000790
CURRENT APPLICATION NUMBER: US/09/949,002
CURRENT FILING DATE: 2000-01-28
PRIOR APPLICATION NUMBER: 60/231,401
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 10823
SOFTWARE: FastSeq for Windows Version 4.0
Q ID NO 765
LENGTH: 129554
TYPE: DNA
ORGANISM: Human
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)-(129554)
OTHER INFORMATION: n = A,T,C or G
US-09-949-002-765

```

```

Query Match 17.1%; Score 320.6; DB 3; Length 129554;
Best Local Similarity 81.4%; Pred. No. 6.9e-78;
Matches 385; Conservative 0; Mismatches 84; Indels 4; Gaps 1;
QY 515 TTTTCTTTCTTTTGTGAGCAGAGTCTGCTGCTGCGCCAGGCTGAGTGCATG
Db 35451 TTTTCTTTCTTTTGTGAGCAGAGTCTGCTGCTGCGCCAGGCTGAGTGCATG
QY 575 GATCTCGCCACATGCAACCTGCGCTCCCGGATTCAAGGATTTCTGCTCAGGCTC
Db 35511 GATCTCGCCACATGCAACCTGCGCTCCCGGATTCAAGGATTTCTGCTCAGGCTC
QY 635 CCAAGTAGCTGGATTACAGTGCACGCAACCAACCCAGC-----TTTTTATTTTGA
Db 35571 CCAAGTAGCTGGATTACAGTGCACGCAACCAACCCAGC-----TTTTTATTTTGA
QY 691 GACAGAGTCTGCGCTGTCAACCGAGCTGAGTACAGTGCATGATCTCACTGCTGC
Db 35631 GACAGAGTCTGCGCTGTCAACCGAGCTGAGTACAGTGCATGATCTCACTGCTGC
QY 751 ACCTCAACCTCCCGGTTCAAGCAATTTCTGCTCAGTGTCTGAGTAGAGATT
Db 35691 ACCTCAACCTCCCGGTTCAAGCAATTTCTGCTCAGTGTCTGAGTAGAGATT
QY 811 CAGAGTGCACCTTCAAGTGTCAAGTATTTTGTATTTTATTTAGTAGAGTGCCTTTTGC
Db 35751 CAGAGTGCACCTTCAAGTGTCAAGTATTTTGTATTTTATTTAGTAGAGTGCCTTTTGC
QY 871 ATGTTGCAAGTATCTGGAACCCCGAAGCTCAGGTATCCGCTGCTTGGCTCC

```





17 12  
 9-949-016-14492/c  
 (quence 14492, Application US/09949016  
 ent No. 6812339  
 ERAL INFORMATION:  
 PLICANT: VENTER, J. Craig et al.  
 TLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
 TLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
 FILE REFERENCE: C1001107  
 RRENT APPLICATION NUMBER: US/09/949,016  
 RRENT FILING DATE: 2000-04-14  
 RIOR APPLICATION NUMBER: 60/241,755  
 RIOR FILING DATE: 2000-10-20  
 RIOR APPLICATION NUMBER: 60/237,768  
 RIOR FILING DATE: 2000-10-03  
 RIOR APPLICATION NUMBER: 60/231,498  
 RIOR FILING DATE: 2000-09-08  
 MBER OF SEQ ID NOS: 207012  
 OTWARE: FastSeq for Windows Version 4.0  
 O ID NO 14492  
 LENGTH: 7481  
 YPR: DNA  
 ORGANISM: Human  
 9-949-016-14492

16.9%; Score 315.8; DB 3; Length 7481;  
 nt Local Similarity 76.5%; Pred.No.3.4e-77;  
 ices 400; Conservative 0; Mismatches 122; Indels 1; Gaps 1;

455 TCTGCTTCCTCCCTGAGGCGCAGAGCTGCAGAGATTGAGCTGCTGCTGCTTTTTC 514  
 7437 TCCGCTGCTGCTGCGCTCCCAAAGTGGCTGGATTACAGGATACGACACACACCGGCC 7378  
 515 TTTTCTTTTCTTTTGTGAGACAGAGCTCTGCTCTGCTGCGCCAGCGTGGAGTGCAGTGGCAT 574  
 7377 TTTTCTTTTCTTTTGTGAGACAGAGCTCTCACTCTGCCCAAGCGTGGAGTGCAGTGGCGC 7318  
 575 GATCTCTGCGCCACCTGCAACCTCTGCTGCTCCCGGATTCAAGGATCTCTGCTCAGGCTC 634  
 7317 AATCTGCGCTCACTGCAATCTCTGCTCTCGGGTTCAAGATTCCTGCTCAGGCTC 7258  
 635 CCAAGTACCTGGGATTACAGGTGACGCGCACACACACCCAGCT..TTTTTTATTTTGGAGAC 693  
 7257 CTGAGTACTAGACTAGACTACAGGACGACACACACACGCTGCTGCTATTTTTTTGGAGAC 7198  
 694 AGAGTCTTGCCCTGTACCCAGCGCTGAGATACAGTGCACATGATCTCACTTCTGCGACC 753  
 7197 GGAGCTTACTCTGTGGCCAGTCTGAGATGCATAGTGATCTTGCTCTACCTGCAACC 7138  
 754 TCCACTCCCGGGTTCAAGCAATCTCTGCTCAAGTCTCTGATGATGCATGATTACAG 813  
 7137 TCTGCTCCCAAGTTCAAGCAATCTCTGCTCAAGCTCCCAAGTATGCTGGAATTACAG 7078  
 814 AAGTCACTCCACGCTTCACTAATTTTGTATTTTGTATAGATAGATGCGCTTTGCGCATG 873  
 7077 GCGCTGCACTACGCCCTGCTAATTTTGTATTTTGTATAGATAGATGCGGCTTTTATCATCA 7018  
 874 TTGGCATGCTAGTGTGAACTCCCGGACCTCAGGTGATCCGCTGCGCTTGGCTCCCAA 933  
 7017 ATGGCAGGCTGATCTCGAATCTCTGACCTCAAGTGTATCTGCGCTTGCTGCTCCCAA 6958  
 934 GTGCTGGATTACAGGCGGTGAGCCATGCGCGCAGGCGCTGAGCT 976  
 6957 GTGCTGGATTACAGGCGGTGAGCCATGCGGTGCGCTCGGCT 6915

17 13  
 9-949-002-584/c  
 (quence 584, Application US/09949002  
 ent No. 6900016  
 ERAL INFORMATION:  
 PLICANT: VENTER, J. Craig et al.

```

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: C0000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; PRIOR FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 584
; LENGTH: 21308
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-584

Query Match      16.9%; Score 315.8; DB 3; Length 21308;
Best Local Similarity 82.0%; Pred. No. 5.9e-77;
Matches 401; Conservative 0; Mismatches 82; Indels 6; Gaps 3;

Qy 505 TTTTTCCTTTCTTTCTTTCTTTTGTGAGACAGTCTGCTCTGTGCGCCAGGCTGAG 563
Db 3157 TTTCTTTTCTTTTCTTTTCTTTTGTGAGACAGATTTCGCTCTGTTGCCAGGCTGAG 3098

Qy 564 TGCAGTGGCATGATCTCTGCCCACTGCAACCTCTGCTCCCGATTCAAGCGATTCTCT 623
Db 3097 TGCATATGGCATGATCTCGGCTCAACACACACCTCTGCTCTCAGGTTCAAAAGATTCTCT 3038

Qy 624 GCCCAGCCCTCCCAAGTAGCTGGGATTACAGGTGACAGCCACACACCCAGC--TTT 680
Db 3037 GCCCAGCCCTCCGAGTAGCTGGGATTACAGATGAGGACACACGCCCGCTTAATTTT 2978

Qy 681 TTATTTTGGACAGAGTCTTGCCCTGTCAACCCAGCTGAGTAGACAGTGCATGATCTCA 740
Db 2977 TTTTGTGAGAGGAGTAGTCACTGTGTCAACCGCTGAGGTGACATGATCTCA 2918

Qy 741 GTTACTGCGACCTTCCACCTTCCCGGGTTCAAGCAATTCTCTGCTCATGTTCTCTAGTA 800
Db 2917 GCTCACTGCAACCTCCACCTCCCGGGTTCAAGTATTTCTCTTACCTCAGGCTCCCGAGTA 2858

Qy 801 GCTAGGATTCAGAAAGTGCACCTTCACAGTTACAGTAAATTTTGTATTTTATAGTAGATG 860
Db 2857 GCTGGACTACAGAGGTGTGCCACACAGCTCAGCTAATTTTGTATTTTATATAGAGACA 2798

Qy 861 CGCTTTTGCCATGTTGSCCATGCTAATGTGTGAACCCCGACCTCAGGTGATCCGCTGACC 920
Db 2797 GGGTTTACCATATTTGGCCAGGCTGAGTCTTGAATCTGTACCTCA 2740

Qy 921 TTGGCCCTCCCAAGTGTGAGATTGACAGGGGTGAGCCATGGCCGACAGGCTGAGCTACTC 980
Db 2739 TCGCCCTCCCAAGTGTGAGATTGACAGGGGTGAGCCATGTGTCTGCTCTTTT 2680

Qy 981 CTTTAGTCT 989
Db 2679 TTTTCTTTT 2671

RESULT 14
US-09-949-002-784/c
; Sequence 784, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; FILE REFERENCE: C0000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0

```



GenCore version 5.1.9  
Copyright (c) 1993 - 2006 Biocelexation Ltd.

nucleic - nucleic search, using SW model

on: June 21, 2006, 22:25:04 ; Search time 2431 Seconds  
(without alignments)  
9452.027 Million cell updates/sec

US-10-502-279-26

1 atctgtctcctagaagatc.....catcccgatcctctag 1870

IDENTITY NUC

Gapop 10.0, Gapext 1.0

number of hits satisfying chosen parameters: 37784340

DB seq length: 0

DB seq length: 200000000

processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

base : Published Applications NA Main:  
1: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US07\_PUBCOMB.seq.\*  
2: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US08\_PUBCOMB.seq.\*  
3: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US09\_PUBCOMB.seq.\*  
4: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US09B\_PUBCOMB.seq.\*  
5: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US09C\_PUBCOMB.seq.\*  
6: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US10A\_PUBCOMB.seq.\*  
7: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US10B\_PUBCOMB.seq.\*  
8: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US10C\_PUBCOMB.seq.\*  
9: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US10D\_PUBCOMB.seq.\*  
10: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US10E\_PUBCOMB.seq.\*  
11: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US10F\_PUBCOMB.seq.\*  
12: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US10G\_PUBCOMB.seq.\*  
13: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US11A\_PUBCOMB.seq.\*  
14: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US11B\_PUBCOMB.seq.\*  
15: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US11C\_PUBCOMB.seq.\*  
16: /EMC\_Celerra\_SIDS3/ptodata/2/pubpna/US11D\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Score	Query	Match	Length	DB	ID	Description
1	1870	100.0	1870	10	US-10-502-279-26	Sequence 26, Appl
2	333.4	17.8	998	12	US-10-301-480-552165	Sequence 552165, Ap
3	333.4	17.8	998	12	US-10-301-480-1165574	Sequence 1165574, Ap
4	330.8	17.7	33362	9	US-10-388-838-36	Sequence 36, Appl
5	326.4	17.5	968	12	US-10-301-480-605733	Sequence 605733, Ap
6	324.8	17.4	31116	9	US-10-301-480-1219142	Sequence 1219142, Ap
7	324.8	17.4	58822	8	US-10-087-192-1660	Sequence 1660, Ap
8	323.6	17.3	162450	6	US-10-052-482-46	Sequence 46, Appl
9	323.6	17.3	162450	7	US-10-071-179-1	Sequence 1, Appl
10	323.6	17.3	162450	13	US-10-126-704-1	Sequence 1, Appl
11	322.8	17.3	16963	8	US-10-741-601-5756	Sequence 5756, Ap
12	322.8	17.3	16963	9	US-10-741-601-17945	Sequence 17945, A
13	322.8	17.3	16963	10	US-10-995-561-13467	Sequence 13467, A
14	322.6	17.3	296405	6	US-10-087-192-1036	Sequence 1036, A
15	322.4	17.2	40000	10	US-10-895-561-13513	Sequence 13513, A
16	320.6	17.1	146656	15	US-11-121-086-68	Sequence 68, Appl

C 18	320.4	17.1	4957	7	US-10-074-024-753	Sequence 753, App
C 19	320.4	17.1	4961	7	US-10-074-024-752	Sequence 752, App
C 20	320.4	17.1	41907	7	US-09-967-013-5	Sequence 5, Appl
C 21	320.4	17.1	126001	7	US-10-175-492-13	Sequence 13, Appl
C 22	320.4	17.1	153142	15	US-11-121-086-27	Sequence 27, Appl
C 23	320.4	17.1	201309	16	US-11-114-798-51	Sequence 51, Appl
C 24	320.4	17.1	272022	11	US-10-330-773-102	Sequence 102, App
C 25	320.4	17.1	344805	9	US-10-779-271-1	Sequence 1, Appl
C 26	320.4	17.1	354592	10	US-10-737-082-70	Sequence 70, Appl
C 27	320.4	17.1	354592	10	US-10-765-790-70	Sequence 70, Appl
C 28	320.4	17.1	1080000	10	US-10-928-446A-1	Sequence 1, Appl
C 29	320.4	17.1	1080000	10	US-10-928-446A-181	Sequence 181, App
C 30	320.4	17.1	1080000	10	US-10-928-446A-183	Sequence 183, App
C 31	320.4	17.1	1080000	10	US-10-928-446A-185	Sequence 185, App
C 32	320.4	17.1	1080000	10	US-10-928-446A-187	Sequence 187, App
C 33	320.4	17.1	1080000	10	US-10-928-446A-189	Sequence 189, App
C 34	320.4	17.1	1080000	10	US-10-928-446A-191	Sequence 191, App
C 35	320.4	17.1	1080000	10	US-10-928-446A-193	Sequence 193, App
C 36	320.4	17.1	1080000	10	US-10-928-446A-195	Sequence 195, App
C 37	320.4	17.1	1080000	10	US-10-928-446A-197	Sequence 197, App
C 38	320.4	17.1	1080000	10	US-10-928-446A-199	Sequence 199, App
C 39	320.4	17.1	1080000	10	US-10-928-446A-201	Sequence 201, App
C 40	320.2	17.1	216929	8	US-10-741-601-5727	Sequence 5727, Ap
C 41	319.8	17.1	6093	7	US-09-956-712-10	Sequence 535, App
C 42	318	17.0	9649	3	US-10-633-913-10	Sequence 10, Appl
C 43	318	17.0	9649	8	US-11-121-086-24	Sequence 24, Appl
C 44	317.4	16.9	34875	9	US-10-775-169-316	Sequence 316, App

## ALIGNMENTS

US-10-502-279-26  
Sequence 26, Appl  
Publication No. US20050084840A1  
GENERAL INFORMATION:  
APPLICANT: Yamanouchi Pharmaceutical Co., Ltd.  
APPLICANT: Hideki ENDOH  
APPLICANT: Ryouhei NAKANO  
APPLICANT: Eiji KUROSAKI  
APPLICANT: Miyuki KATO  
APPLICANT: Hiroyuki YOKOTA  
APPLICANT: Kazumori INABE  
TITLE OF INVENTION: METHOD FOR SCREENING A DRUG AMELIORATING INSULIN RESISTANCE  
FILE REFERENCE: 082704  
CURRENT APPLICATION NUMBER: US/10/502.279  
CURRENT FILING DATE: 2004-07-23  
PRIOR APPLICATION NUMBER: JP 2002-013721  
PRIOR FILING DATE: 2002-01-23  
PRIOR APPLICATION NUMBER: JP 2002-257703  
PRIOR FILING DATE: 2002-09-03  
NUMBER OF SEQ ID NOS: 28  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 26  
LENGTH: 1870  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: promoter  
LOCATION: (1)..(1870)  
OTHER INFORMATION:  
US-10-502-279-26

Query Match 100.0%; Score 1870; DB 10; Length 1870;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1870; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ATCTGTCTCCTAGAAAGTACCAAGCAATCTACAGAGTCTCTGAATATGCTTCT 60  
1 ATCTGTCTCCTAGAAAGTACCAAGCAATCTACAGAGTCTCTGAATATGCTTCT 60

61 AGTTCTAGATTACCTCATGTGCTGTGGGTAGTCCCTCTTATTTGCCAGCTCCATG 120  
61 AGTTCTAGATTACCTCATGTGCTGTGGGTAGTCCCTCTTATTTGCCAGCTCCATG 120  
121 GCAAGTTGGCTCTCTCTGAGTGAACCTGATTTCCATGTCCTATAGGCGCA 180  
121 GCAAGTTGGCTCTCTCTGAGTGAACCTGATTTCCATGTCCTATAGGCGCA 180  
121 GCAAGTTGGCTCTCTCTGAGTGAACCTGATTTCCATGTCCTATAGGCGCA 180  
181 GGATATGAGTGAAGGTTTACATCCAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240  
181 GGATATGAGTGAAGGTTTACATCCAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240  
241 CATTTCTGCTATTTCTTCTGACAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300  
241 CATTTCTGCTATTTCTTCTGACAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300  
301 AAAAATTTAGGTCAGAGAGTACTGGAGAGAGAGAGAGAGAGAGAGAGAGAG 360  
301 AAAAATTTAGGTCAGAGAGTACTGGAGAGAGAGAGAGAGAGAGAGAGAGAG 360  
361 CTGGGAAAAATTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420  
361 CTGGGAAAAATTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420  
421 GGGTCTCAATCAGCCCTTTCTAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480  
421 GGGTCTCAATCAGCCCTTTCTAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480  
481 CAGAGATGAGGCTGCTGCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTT 540  
481 CAGAGATGAGGCTGCTGCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTT 540  
541 TTGCTCTGTGCGCCAGGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600  
541 TTGCTCTGTGCGCCAGGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600  
541 TTGCTCTGTGCGCCAGGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600  
601 TCCCGGATTCAGAGAGATCTCTGCTCAGCTCCAGAGAGAGAGAGAGAGAG 660  
601 TCCCGGATTCAGAGAGATCTCTGCTCAGCTCCAGAGAGAGAGAGAGAGAG 660  
661 GGCACACACCCAGCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTT 720  
661 GGCACACACCCAGCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTT 720  
721 AGTACAGTGAATCTAGTCTCAGTGCAGCTCCAGCTCCGAGGTTCAAGCAATTC 780  
721 AGTACAGTGAATCTAGTCTCAGTGCAGCTCCAGCTCCGAGGTTCAAGCAATTC 780  
781 CTGCTCAGTCTCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 840  
781 CTGCTCAGTCTCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 840  
841 TTGTATTTTATGAGAGATGCGCTTTTGCCATGTTGGCCATGTAATGTAATG 900  
841 TTGTATTTTATGAGAGATGCGCTTTTGCCATGTTGGCCATGTAATGTAATG 900  
901 CCTCAGGTATGCGCTGAGCTTGGCTCCCAAGGTGCGGATTTGAGCGGTAGC 960  
901 CCTCAGGTATGCGCTGAGCTTGGCTCCCAAGGTGCGGATTTGAGCGGTAGC 960  
961 GGGCGGCGCTGAGCTATCTCTTATGCTCTGAGAGAGAGAGAGAGAGAGAG 1020  
961 GGGCGGCGCTGAGCTATCTCTTATGCTCTGAGAGAGAGAGAGAGAGAGAG 1020  
1021 CTTTACATGCAATCTCTCCCTAGTCCCAAGGCTCTCTGAGAGAGAGAGAGAG 1080  
1021 CTTTACATGCAATCTCTCCCTAGTCCCAAGGCTCTCTGAGAGAGAGAGAGAG 1080  
1081 CATCTCTCAATCAGAGCGGCTTTACAAAGATATCAGAGATATATTTTGGTCAA 1140  
1081 CATCTCTCAATCAGAGCGGCTTTACAAAGATATCAGAGATATATTTTGGTCAA 1140  
1141 TAACTCTTCCCGAGAACTCAGAGGCTCTGATGAGATCAGTAAGGCAATTTCA 1200

Db 1141 TAACTCTTCCCGAGAACTCAGAGGCTCTGATGAGATCAGTAAGGCAATTTCA 1200  
Qy 1201 AGCAACAGAGGTTCTGCTGCTTTTACAGGAGAGCTCCAGTGTGTGGAGTGAAGCAAG 1260  
Db 1201 AGCAACAGAGGTTCTGCTGCTTTTACAGGAGAGCTCCAGTGTGTGGAGTGAAGCAAG 1260  
Qy 1261 TGAGGAGAGAGCCAGACTTTCTGAGCTTCCAGCTTCTGAGTGTGCAAGCTTCCGGA 1320  
Db 1261 TGAGGAGAGAGCCAGACTTTCTGAGCTTCCAGCTTCTGAGTGTGCAAGCTTCCGGA 1320  
Qy 1321 GGGCCCCCAAGAGCTGAGAACTAGTGTGCCCCCAAGGCTTCTGAGTGTGCAAG 1380  
Db 1321 GGGCCCCCAAGAGCTGAGAACTAGTGTGCCCCCAAGGCTTCTGAGTGTGCAAG 1380  
Qy 1381 TCTGTTTATGACTAGGCTCAGAGAGCTCAGGCTGAAATTTCTTCTGCTGCAATTA 1440  
Db 1381 TCTGTTTATGACTAGGCTCAGAGAGCTCAGGCTGAAATTTCTTCTGCTGCAATTA 1440  
Qy 1441 CCCACCTTAACTCCCATTTCTTATGAGTCACTCTGCTGCTGCTGCTGCTGCT 1500  
Db 1441 CCCACCTTAACTCCCATTTCTTATGAGTCACTCTGCTGCTGCTGCTGCTGCT 1500  
Qy 1501 TGTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1560  
Db 1501 TGTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1560  
Qy 1561 CTACCCCATCAGGCGCCAGATCTCTTAAAGCAAGAGAGAGAGAGAGAGAGAG 1620  
Db 1561 CTACCCCATCAGGCGCCAGATCTCTTAAAGCAAGAGAGAGAGAGAGAGAGAG 1620  
Qy 1621 CCTTCCCGCTCATATTCCTTCAAGCTTCCCTGCTGCTGCTGCTGCTGCTGCT 1680  
Db 1621 CCTTCCCGCTCATATTCCTTCAAGCTTCCCTGCTGCTGCTGCTGCTGCTGCT 1680  
Qy 1681 CAAAGGAGCGGTTAAGAAAGTAACTTCCAGAGAGAGAGAGAGAGAGAGAGAG 1740  
Db 1681 CAAAGGAGCGGTTAAGAAAGTAACTTCCAGAGAGAGAGAGAGAGAGAGAGAG 1740  
Qy 1741 ACACCCCGGCTGAGTATGAGTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1800  
Db 1741 ACACCCCGGCTGAGTATGAGTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1800  
Qy 1801 GCGGAGCGCTTACCAATGCTGATCTGAGAGAGAGAGAGAGAGAGAGAGAG 1860  
Db 1801 GCGGAGCGCTTACCAATGCTGATCTGAGAGAGAGAGAGAGAGAGAGAGAG 1860  
Qy 1861 TCCCTGCTAG 1870  
Db 1861 TCCCTGCTAG 1870

RESULT 2  
US-10-301-480-552165/c  
; Sequence 552165, Application US/10301480  
; Publication No. US20060057564A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms  
; FILE REFERENCE: 108827.137  
; CURRENT APPLICATION NUMBER: US/10/301,480  
; CURRENT FILING DATE: 2002-11-21  
; PRIOR APPLICATION NUMBER: US 10/215,598  
; PRIOR FILING DATE: 2002-08-09  
; PRIOR APPLICATION NUMBER: US 60/311,695  
; PRIOR FILING DATE: 2001-08-10  
; NUMBER OF SEQ ID NOS: 122618  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 552165  
; LENGTH: 998  
; TYPE: DNA  
; ORGANISM: Homo sapien



```

757 ACCCTCCGGGTTCAAGCAATTCCTGCTCAGTCTCTGAGTAGTGAATTAAGAAAG 816
11946 GCCGCCCGGATTCAAGCGATTCTTCTGCTCAGCCCTCCGAGTAGCTGGATTACAGGCA 11887
817 TGCACCTCCAGCTTACAGCAATTTTGTATTTTATAGTAGAGTAGGCTTTTGCANTTG 876
11886 TGTCCACCATGCGCGGCTTAATTTTGTATTTTATAGTAGAGTAGGCTTTTGCANTTG 11827
877 GCCATGCTAGTCTGGAACCCCGGACCTCAGTGAATCCGTGGCTTGGCTCCCAAGTG 936
11826 GCAAGGCTGTCTTGAATCTCCGACCTCAGTGAATCCCGCACTCGGCTCCCAAGTG 11767
937 CTGGGATTGCAAGCGCTGAGCCATTCGCGCCAGGCC 970
11766 CTGGGATTACAGGTGTGAGCCACTGCGCCAGGCC 11733

JF 5
1-301-480-605733
Sequence 605733, Application US/10301480
Publication No. US20060057564A1
GENERAL INFORMATION:
APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
FILE OF INVENTION: In the Human Genome
REFERENCE: 108827.137
CURRENT APPLICATION NUMBER: US/10/301,480
CURRENT FILING DATE: 2002-11-21
PRIOR APPLICATION NUMBER: US 10/215,598
PRIOR FILING DATE: 2002-08-09
PRIOR APPLICATION NUMBER: US 60/311,695
PRIOR FILING DATE: 2001-08-10
NUMBER OF SEQ ID NOS: 1226818
SOFTWARE: FastSeq for Windows Version 4.0
ID NO 605733
LENGTH: 968
TYPE: DNA
ORGANISM: Homo sapien
1-301-480-605733

Query Match      17.5%; Score 326.4; DB 12; Length 968;
Local Similarity 83.5%; Pred. No. 2.8e-87;
Matches 396; Conservative 0; Mismatches 71; Indels 7; Gaps 2;

503 TTTTCTTTCTTTCTTTCTTTCTTTTGAAGACAGAGTCTGCTGTGCGCCAGGCTGGA 562
473 TTGAATTTTCTTTCTTTCTTTCTTTTGAAGACAGAGTCTGCTGTGCGCCAGGCTGGA 532
563 GTGACGTGCGATGATCTGCGCCACTGCAACCTTGCCTCCGAGTTGAAGCGATTCAAG 592
533 GTACAGTGGCATGATCTGAGCTCATACTCAACCTTGCCTCCGAGTTGAAGCGATTCAAG 592
623 TGCCTCAGGCTCCCAAGTAGTGGAGTTACAGGTGACGCGCACCAACCCAGC-----TT 677
593 TGCCTCAGGCTCCCAAGTAGTGGAGTTACAGGTGACGCGCACCAACCTTGCCTTTT 652
678 TTTTATTTTGAAGACAGAGTCTGCTGTCAACCGAGCTGAGTACAGTGGCATGATC 737
653 TTTTATTTTGAAGACAGAGTCTGCTGTCAACCGAGCTGAGTACAGTGGCATGATC 712
738 TCAGTTCACTGCACTCCACTCCCGGGTTGAAGCAATTCCTGCTCAGTCTCTGA 797
713 TCGGTTCACTGCACTCCACTCCCGGGTTGAAGCAATTCCTGCTCAGTCTCTGA 772
798 GTAGTAGGATTACAGAAAGTGCATCTCAAGTTCACTAATTTTGTATTTTATAGAG 857
773 GTAGCTGGGATTACAGGCAACCCACCAAGCCAGCTAATTTTGTATTTTATAGAG 832
858 ATGCGCTTTTGGCAATGTTGGCCATGCTGAGAACCCCGGACCTCAGGTGATCCGCTG 917
833 ATGCGGTTTCACTGATTTGGCTAGCTGAGTTGAACTCTGACCTCA--TGATCTGCT 890
918 GCTTGGCTCCCAAGTGTCTGGATTGCAAGGCTGAGCATGAGCCAGGCT 971

```

```

Db      891 GCTTGGCTCCCAAGTGTCTGGATTGCAAGGCTGAGCATGAGCCAGGCTGAGCT 944

RESULT 6
US-10-301-480-1219142
Sequence 1219142, Application US/10301480
Publication No. US20060057564A1
GENERAL INFORMATION:
APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
FILE OF INVENTION: In the Human Genome
REFERENCE: 108827.137
CURRENT APPLICATION NUMBER: US/10/301,480
CURRENT FILING DATE: 2002-11-21
PRIOR APPLICATION NUMBER: US 10/215,598
PRIOR FILING DATE: 2002-08-09
PRIOR APPLICATION NUMBER: US 60/311,695
PRIOR FILING DATE: 2001-08-10
NUMBER OF SEQ ID NOS: 1226818
SOFTWARE: FastSeq for Windows Version 4.0
ID NO 1219142
LENGTH: 968
TYPE: DNA
ORGANISM: Homo sapien
US-10-301-480-1219142

Query Match      17.5%; Score 326.4; DB 12; Length 968;
Local Similarity 83.5%; Pred. No. 2.8e-87;
Matches 396; Conservative 0; Mismatches 71; Indels 7; Gaps 2;

503 TTTTCTTTCTTTCTTTCTTTCTTTTGAAGACAGAGTCTGCTGTGCGCCAGGCTGGA 562
473 TTGAATTTTCTTTCTTTCTTTCTTTTGAAGACAGAGTCTGCTGTGCGCCAGGCTGGA 532
563 GTGACGTGCGATGATCTGCGCCACTGCAACCTTGCCTCCGAGTTGAAGCGATTCAAG 592
533 GTACAGTGGCATGATCTGAGCTCATACTCAACCTTGCCTCCGAGTTGAAGCGATTCAAG 592
623 TGCCTCAGGCTCCCAAGTAGTGGAGTTACAGGTGACGCGCACCAACCCAGC-----TT 677
593 TGCCTCAGGCTCCCAAGTAGTGGAGTTACAGGTGACGCGCACCAACCTTGCCTTTT 652
678 TTTTATTTTGAAGACAGAGTCTGCTGTCAACCGAGCTGAGTACAGTGGCATGATC 737
653 TTTTATTTTGAAGACAGAGTCTGCTGTCAACCGAGCTGAGTACAGTGGCATGATC 712
738 TCAGTTCACTGCACTCCACTCCCGGGTTGAAGCAATTCCTGCTCAGTCTCTGA 797
713 TCGGTTCACTGCACTCCACTCCCGGGTTGAAGCAATTCCTGCTCAGTCTCTGA 772
798 GTAGTAGGATTACAGAAAGTGCATCTCAAGTTCACTAATTTTGTATTTTATAGAG 857
773 GTAGCTGGGATTACAGGCAACCCACCAAGCCAGCTAATTTTGTATTTTATAGAG 832
858 ATGCGCTTTTGGCAATGTTGGCCATGCTGAGAACCCCGGACCTCAGGTGATCCGCTG 917
833 ATGCGGTTTCACTGATTTGGCTAGCTGAGTTGAACTCTGACCTCA--TGATCTGCT 890
918 GCTTGGCTCCCAAGTGTCTGGATTGCAAGGCTGAGCATGAGCCAGGCT 971
891 GCTTGGCTCCCAAGTGTCTGGATTGCAAGGCTGAGCATGAGCCAGGCTGAGCT 944

RESULT 7
US-10-087-192-1660
Sequence 1660, Application US/10087192
Publication No. US20020182586A1
GENERAL INFORMATION:
APPLICANT: Morris, David W.
APPLICANT: Engelhard, Eric K.
TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
CANCER

```







ORGANISM: Homo sapiens  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 72794  
 OTHER INFORMATION: 5-124-273 : polymorphic base A or G  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 86073  
 OTHER INFORMATION: 5-127-261 : polymorphic base A or C  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 90842  
 OTHER INFORMATION: 99-1437-325 : polymorphic base A or G  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 93714  
 OTHER INFORMATION: 5-128-60 : polymorphic base deletion of GT  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 97122  
 OTHER INFORMATION: 99-1442-224 : polymorphic base G or T  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 97152  
 OTHER INFORMATION: 5-129-144 : polymorphic base deletion of T  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 99098  
 OTHER INFORMATION: 5-130-257 : polymorphic base A or G  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 99117  
 OTHER INFORMATION: 5-130-276 : polymorphic base A or G  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 103806  
 OTHER INFORMATION: 5-131-395 : polymorphic base A or T  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 106940  
 OTHER INFORMATION: 5-133-375 : polymorphic base insertion of A  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 108106  
 OTHER INFORMATION: 5-135-155 : polymorphic base insertion of A  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 108149  
 OTHER INFORMATION: 5-135-198 : polymorphic base insertion of GTTT  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 108308  
 OTHER INFORMATION: 5-135-357 : polymorphic base A or G  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 108471  
 OTHER INFORMATION: 5-136-174 : polymorphic base C or T  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 134134  
 OTHER INFORMATION: 5-140-120 : polymorphic base C or T  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 134362  
 OTHER INFORMATION: 5-140-348 : polymorphic base insertion of A  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 134374  
 OTHER INFORMATION: 5-140-361 : polymorphic base insertion of CA  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 146328  
 OTHER INFORMATION: 5-143-84 : polymorphic base A or G

FEATURE:  
 NAME/KEY: allele  
 LOCATION: 146345  
 OTHER INFORMATION: 5-143-101 : polymorphic base A or C  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 150329  
 OTHER INFORMATION: 5-145-24 : polymorphic base A or G  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 160031  
 OTHER INFORMATION: 5-148-352 : polymorphic base G or T  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 72771..72817  
 OTHER INFORMATION: polymorphic fragment 5-124-273 SEQ ID30  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 72771..72817  
 OTHER INFORMATION: polymorphic fragment 5-124-273 SEQ ID31  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 86050..88096  
 OTHER INFORMATION: polymorphic fragment 5-127-261 SEQ ID32  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 86050..88096  
 OTHER INFORMATION: polymorphic fragment 5-127-261 SEQ ID33  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 90819..90865  
 OTHER INFORMATION: complement polymorphic fragment 99-1437-325 SEQ ID49  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 90819..90865  
 OTHER INFORMATION: complement polymorphic fragment 99-1437-325 SEQ ID50  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 93690..93736  
 OTHER INFORMATION: polymorphic fragment 5-128-60 SEQ ID51  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 93690..93736  
 OTHER INFORMATION: polymorphic fragment 5-128-60 SEQ ID52  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 97099..97145  
 OTHER INFORMATION: polymorphic fragment 99-1442-224 SEQ ID53  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 97099..97145  
 OTHER INFORMATION: polymorphic fragment 99-1442-224 SEQ ID54  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 97130..97177  
 OTHER INFORMATION: polymorphic fragment 5-129-144 SEQ ID33  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 97130..97177  
 OTHER INFORMATION: polymorphic fragment 5-129-144 SEQ ID34  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 99075..99121  
 OTHER INFORMATION: polymorphic fragment 5-130-257 SEQ ID34  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 99075..99121  
 OTHER INFORMATION: polymorphic fragment 5-130-257 SEQ ID35  
 FEATURE:  
 NAME/KEY: allele  
 LOCATION: 99094..99140  
 OTHER INFORMATION: polymorphic fragment 5-130-276 SEQ ID35  
 FEATURE:

```
NAME/KEY: allele  
LOCATION: 99094..99140  
OTHER INFORMATION: polymorphic fragment 5-130-276 SEQ ID56  
FEATURE:  
NAME/KEY: allele  
LOCATION: 103783..103828  
OTHER INFORMATION: polymorphic fragment 5-131-395 SEQ ID57  
FEATURE:  
NAME/KEY: allele  
LOCATION: 103783..103828  
OTHER INFORMATION: polymorphic fragment 5-131-395 SEQ ID57  
FEATURE:  
NAME/KEY: allele  
LOCATION: 106918..106966  
OTHER INFORMATION: polymorphic fragment 5-133-375 SEQ ID57  
FEATURE:  
NAME/KEY: allele  
LOCATION: 106918..106966  
OTHER INFORMATION: polymorphic fragment 5-133-375 SEQ ID58  
FEATURE:  
NAME/KEY: allele  
LOCATION: 108084..108130  
OTHER INFORMATION: polymorphic fragment 5-135-155 SEQ ID59  
FEATURE:  
NAME/KEY: allele  
LOCATION: 108127..108177  
OTHER INFORMATION: polymorphic fragment 5-135-198 SEQ ID59  
FEATURE:  
NAME/KEY: allele  
LOCATION: 108127..108177  
  
Key Match      17.3% Score 323.6; DB 6; Length 162450;  
Local Similarity 81.2%; Pred No. 2.8e-85;  
Index 401; Conservative 0; Mismatches 89; Indels 4; Gaps 2;  
  
488 TGAGCTGCTGCTGCTTTTTTTTTTTTTTTTCTTTTCTTTTGTGAAGAAGTCCTGCTC  
120208 TAAAGAGCAGTAGTAATCTTTTTTGTTGGTCTGTTTGTGAAGAAGTCCTGCTC 101949  
  
548 GTCCGCCAAGCGTCGAAGTGCAGTGCATCTCTGCCCACTGCAACTCTGCTCCCGGA 607  
101948 GTCCGCCAAGCGTCGAAGTGCAGTGCATCTCGCTCACTGCAACCTCCGCTTCGGG 101889  
  
608 TTCAAGCAATTCTCTGCTCAGCCTCCCAAGTAGCTGGGATTACAGTGCACGCCACA 667  
101888 TTCAGCAATCTCTGCTCCTCAGCCTCCCTAGTAGCTGGGATTACAGCACCTGCCACA 101829  
  
668 CACCACAGCT--TTTTTAATTTTGGAGACAGAGTCTTGCCCTGTCAACCGAGCTGAGTAC 725  
101828 CGCCACAGCTAATTTTTTTTTTTTTTTTGAAGAGTCTGCTGTATCCCAAGCTGAGTGC 101769  
  
726 AGTGCATGATCTCATGTTCACTGCGCACTCCACTCCCGGTTCAACAAATTTCTGTC 785  
101768 AGTGCATGATCTCGGCTCATGCAAGCTCGGCTCCCGGGTTGACAACTTCTCTGCC 101709  
  
786 TCAGTCTCTGATGATGATGATTAACAAGTGCACCTCCACGTTCAAGCTAATTTTT--G 843  
101708 TCAGTCTCTGATGATGATGATTAACAAGCTGCACCAACATGCGGCTAATTTTTTGG 101649  
  
844 TATTTTATGATAGATNGCGCTTTTGCATGTTTGGCAATGCTAGTCTGGAACCCGAGCT 903  
101648 TATTTTATGATAGACAGAGGTTTCAACATGTTAGCAGAGATGATCTGATCTCTGACT 101589  
  
904 CAGGTATTCGCTGCGCTTGGCTCTCCCAAAGTCTCGGATTGCAAGCGTGAACCATGCG 963  
101588 CAGGTATTCGCTGCTGCGCTCCCAAAGTCTCGGATTGCAAGCGGTGACCAACGCG 101529  
  
964 CCAAGCTTGAAGCTA 977
```

```

Db      101528  CCCAGCCACACCCA 101515

RESULT 10
US-10-126-704-1/c
; Sequence 1, Application US/10126704
; Publication No. US20030170647A1
; GENERAL INFORMATION:
; APPLICANT: Bougenlele, Lydie
; TITLE OF INVENTION: A NUCLEIC ACID ENCODING A RETINOBLASTOMA BINDING PROTEIN (RBB-7)
; FILE REFERENCE: 44.US.5.DIV
; CURRENT FILING DATE: 2002-04-20
; PRIOR APPLICATION NUMBER: US/10/126,704
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/111,909
; PRIOR FILING DATE: 1998-12-10
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: Patent.pm
; SEQ ID NO 1
; LENGTH: 162450
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 72794
; OTHER INFORMATION: 5-124-273 : polymorphic base A or G
; FEATURE:
; NAME/KEY: allele
; LOCATION: 88073
; OTHER INFORMATION: 5-127-261 : polymorphic base A or C
; FEATURE:
; NAME/KEY: allele
; LOCATION: 90842
; OTHER INFORMATION: 99-1437-325 : polymorphic base A or G
; FEATURE:
; NAME/KEY: allele
; LOCATION: 93714
; OTHER INFORMATION: 5-128-60 : polymorphic base deletion of GT
; FEATURE:
; NAME/KEY: allele
; LOCATION: 97122
; OTHER INFORMATION: 99-1442-224 : polymorphic base G or T
; FEATURE:
; NAME/KEY: allele
; LOCATION: 97152
; OTHER INFORMATION: 5-129-144 : polymorphic base deletion of T
; FEATURE:
; NAME/KEY: allele
; LOCATION: 99098
; OTHER INFORMATION: 5-130-257 : polymorphic base A or G
; FEATURE:
; NAME/KEY: allele
; LOCATION: 99117
; OTHER INFORMATION: 5-130-276 : polymorphic base A or G
; FEATURE:
; NAME/KEY: allele
; LOCATION: 103806
; OTHER INFORMATION: 5-131-395 : polymorphic base A or T
; FEATURE:
; NAME/KEY: allele
; LOCATION: 106940
; OTHER INFORMATION: 5-133-375 : polymorphic base insertion of A
; FEATURE:
; NAME/KEY: allele
; LOCATION: 108106
; OTHER INFORMATION: 5-135-155 : polymorphic base insertion of A
; FEATURE:
; NAME/KEY: allele
; LOCATION: 108149
; OTHER INFORMATION: 5-135-198 : polymorphic base insertion of GTTT
; FEATURE:

```



101888 TTCCAGGAATCTGCTGCTCCAGCTCTCTTAAGTGGAGATTAACAGGCACTGCTCCACCA 101829  
668 CACCCAGCT--TTTTTATTTTGGAGACAGAGTCTTGGCCCTGTCACCCAGGCTGAGTAC 725  
101828 CGCCAGCTAATTTTTTTTTTTTTTGAAGAGTCTGCTCTGTCACCCAGGCTGAGTGC 101769  
726 AGTGGCATGATCTCAGTTCACTGCACTCCACCTCCCGGGATTCAAGCAATTCCTCTCC 785  
101768 AGTGGGATGATCTCGCTGCTCACTGCAAGCTCCGCTCCCGGGATTGACCAATTCCTCTCC 101709  
786 TCGCTCTCTGAGTACTAGATTAAGAACTGCACTCCACCTTCACTGCTAATTTTT--G 843  
101708 TCAGCTCTCTGAGTACTAGATTAAGAACTGCACTCCACCTTCACTGCTAATTTTTGG 101649  
844 TATTTTATGAGATGATCGCTTTTGGCATGTTGGCATGCTAGTCTGAAACCCGAGCT 903  
101648 TGTTTTATGAGATGATCGCTTTTGGCATGTTGGCATGCTAGTCTGAAACCCGAGCT 101589  
904 CAGGTGATCCGCTGCTGCTTGGCTCCCAAGTCTGGAATTGCAAGGCTGAGCCATGCG 963  
101588 CAGGTGATGCTGCTGCTTGGCTCCCAAGTCTGGAATTGCAAGGCTGAGCCATGCG 101529  
964 CCAGGCTGAGCTA 977  
101528 CCCAGCCACACCA 101515

IT 11  
--132-838-1/C  
quence 1, Application US/11132838  
blication No. US20050221371A1  
HERAL INFORMATION:  
PLICANT: Bougueleret, Lydie  
TITLE OF INVENTION: A NUCLEIC ACID ENCODING A RETINOBLASTOMA BINDING  
TITLE OF INVENTION: AND POLYMORPHIC MARKERS ASSOCIATED WITH SAID NUCLEIC ACID.  
THE REFERENCE: GENSET.031A  
URRENT APPLICATION NUMBER: US/11/132,838  
URRENT FILING DATE: 2005-05-19  
RIOR APPLICATION NUMBER: US/09/345,882  
RIOR FILING DATE: 1999-06-30  
RIOR APPLICATION NUMBER: US 60/091,315  
RIOR FILING DATE: 1998-06-30  
RIOR APPLICATION NUMBER: US 60/111,909  
RIOR FILING DATE: 1998-12-10  
UMBER OF SEQ ID NOS: 140  
FTWARE: Patent.pm  
Q ID NO 1  
LENGTH: 162450  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: allele  
LOCATION: 72794  
OTHER INFORMATION: 5-124-273 : polymorphic base A or G  
FEATURE:  
NAME/KEY: allele  
LOCATION: 88073  
OTHER INFORMATION: 5-127-261 : polymorphic base A or C  
FEATURE:  
NAME/KEY: allele  
LOCATION: 90842  
OTHER INFORMATION: 99-1437-325 : polymorphic base A or G  
FEATURE:  
NAME/KEY: allele  
LOCATION: 93714  
OTHER INFORMATION: 5-128-60 : polymorphic base deletion of GT  
FEATURE:  
NAME/KEY: allele  
LOCATION: 97122  
OTHER INFORMATION: 99-1442-224 : polymorphic base G or T  
FEATURE:

NAME/KEY: allele  
LOCATION: 97152  
OTHER INFORMATION: 5-129-144 : polymorphic base deletion of T  
FEATURE:  
NAME/KEY: allele  
LOCATION: 99098  
OTHER INFORMATION: 5-130-257 : polymorphic base A or G  
FEATURE:  
NAME/KEY: allele  
LOCATION: 99117  
OTHER INFORMATION: 5-130-276 : polymorphic base A or G  
FEATURE:  
NAME/KEY: allele  
LOCATION: 103806  
OTHER INFORMATION: 5-131-395 : polymorphic base A or T  
FEATURE:  
NAME/KEY: allele  
LOCATION: 106940  
OTHER INFORMATION: 5-133-375 : polymorphic base insertion of A  
FEATURE:  
NAME/KEY: allele  
LOCATION: 108106  
OTHER INFORMATION: 5-135-155 : polymorphic base insertion of A  
FEATURE:  
NAME/KEY: allele  
LOCATION: 108149  
OTHER INFORMATION: 5-135-198 : polymorphic base insertion of GTTT  
FEATURE:  
NAME/KEY: allele  
LOCATION: 108308  
OTHER INFORMATION: 5-135-357 : polymorphic base A or G  
FEATURE:  
NAME/KEY: allele  
LOCATION: 108471  
OTHER INFORMATION: 5-136-174 : polymorphic base C or T  
FEATURE:  
NAME/KEY: allele  
LOCATION: 134134  
OTHER INFORMATION: 5-140-120 : polymorphic base C or T  
FEATURE:  
NAME/KEY: allele  
LOCATION: 134362  
OTHER INFORMATION: 5-140-348 : polymorphic base insertion of A  
FEATURE:  
NAME/KEY: allele  
LOCATION: 134374  
OTHER INFORMATION: 5-140-361 : polymorphic base insertion of CA  
FEATURE:  
NAME/KEY: allele  
LOCATION: 146328  
OTHER INFORMATION: 5-143-84 : polymorphic base A or G  
FEATURE:  
NAME/KEY: allele  
LOCATION: 146345  
OTHER INFORMATION: 5-143-101 : polymorphic base A or C  
FEATURE:  
NAME/KEY: allele  
LOCATION: 150329  
OTHER INFORMATION: 5-145-24 : polymorphic base A or G  
FEATURE:  
NAME/KEY: allele  
LOCATION: 160031  
OTHER INFORMATION: 5-148-352 : polymorphic base G or T  
FEATURE:  
NAME/KEY: allele  
LOCATION: 72771..72817  
OTHER INFORMATION: polymorphic fragment 5-124-273 SEQ ID30  
FEATURE:  
NAME/KEY: allele  
LOCATION: 72771..72817  
OTHER INFORMATION: polymorphic fragment 5-124-273 SEQ ID51  
FEATURE:  
NAME/KEY: allele

```

:CCATION: 88050..88096
:OTHER INFORMATION: polymorphic fragment 5-127-261 SEQ ID31
:FEATURE:
:NAME/KEY: allele
:CCATION: 88050..88096
:OTHER INFORMATION: polymorphic fragment 5-127-261 SEQ ID52
:FEATURE:
:NAME/KEY: allele
:CCATION: 90819..90865
:OTHER INFORMATION: complement polymorphic fragment 99-1437-325 SEQ ID49
:FEATURE:
:NAME/KEY: allele
:CCATION: 90819..90865
:OTHER INFORMATION: complement polymorphic fragment 99-1437-325 SEQ ID70
:FEATURE:
:NAME/KEY: allele
:CCATION: 93690..93736
:OTHER INFORMATION: polymorphic fragment 5-128-60 SEQ ID32
:FEATURE:
:NAME/KEY: allele
:CCATION: 93690..93736
:OTHER INFORMATION: polymorphic fragment 5-128-60 SEQ ID53
:FEATURE:
:NAME/KEY: allele
:CCATION: 97099..97145
:OTHER INFORMATION: polymorphic fragment 99-1442-224 SEQ ID50
:FEATURE:
:NAME/KEY: allele
:CCATION: 97099..97145
:OTHER INFORMATION: polymorphic fragment 99-1442-224 SEQ ID71
:FEATURE:
:NAME/KEY: allele
:CCATION: 97130..97177
:OTHER INFORMATION: polymorphic fragment 5-129-144 SEQ ID33
:FEATURE:
:NAME/KEY: allele
:CCATION: 97130..97177
:OTHER INFORMATION: polymorphic fragment 5-129-144 SEQ ID54
:FEATURE:
:NAME/KEY: allele
:CCATION: 99075..99121
:OTHER INFORMATION: polymorphic fragment 5-130-257 SEQ ID34
:FEATURE:
:NAME/KEY: allele
:CCATION: 99075..99121
:OTHER INFORMATION: polymorphic fragment 5-130-257 SEQ ID55
:FEATURE:
:NAME/KEY: allele
:CCATION: 99094..99140
:OTHER INFORMATION: polymorphic fragment 5-130-276 SEQ ID35
:FEATURE:
:NAME/KEY: allele
:CCATION: 99094..99140
:OTHER INFORMATION: polymorphic fragment 5-130-276 SEQ ID56
:FEATURE:
:NAME/KEY: allele
:CCATION: 103783..103828
:OTHER INFORMATION: polymorphic fragment 5-131-395 SEQ ID36
:FEATURE:
:NAME/KEY: allele
:CCATION: 103783..103828
:OTHER INFORMATION: polymorphic fragment 5-131-395 SEQ ID57
:FEATURE:
:NAME/KEY: allele
:CCATION: 106918..106966
:OTHER INFORMATION: polymorphic fragment 5-133-375 SEQ ID37
:FEATURE:
:NAME/KEY: allele
:CCATION: 106918..106966
:OTHER INFORMATION: polymorphic fragment 5-133-375 SEQ ID58
:FEATURE:
:NAME/KEY: allele
:CCATION: 108084..108130

```

```

? OTHER INFORMATION: polymorphic fragment 5-135-155 SEQ ID38
?
? FEATURE:
? NAME/KEY: allele
? LOCATION: 108084..108130
? OTHER INFORMATION: polymorphic fragment 5-135-155 SEQ ID55
?
? FEATURE:
? NAME/KEY: allele
? LOCATION: 108127..108177
? OTHER INFORMATION: polymorphic fragment 5-135-198 SEQ ID39
?
? FEATURE:
? NAME/KEY: allele

```

Query Match	17.3%;	Score 323.6;	DB 13;	Length 162450;
Best Local Similarity	81.2%;	Pred. No. 2.8e-85;		
Matches 401;	Conservative 0;	Mismatches 89;	Indels 4;	Gaps 2

QY	488	GAGGTGCTGCGCTTTT	TTTTTTTCTCTTTT	TTTTTTTCTTTT	TTTTTTTGAAGCAGTCTGCTC	547
Db	102008	TAAAGAGAGTAGTAAT	CTTTTTTTTGT	TTTGTCTGTTTT	TGAAGCAGAGTCTTGCTC	101949
QY	548	GTCGCCACGCGTGA	GTGAGTGCATGATCT	CTGCCCCAC	TGCAACCTTGCTC	607
Db	101948	GTCGCCACGCGTGA	GTGAGTGCATGATCT	CTGCCCCAC	TGCAACCTTGCTC	101889
QY	608	TTCAAGCAATTCCT	GTGCTCAGCTCCCA	AGTAGTGGAGTATTA	CAGGTGCAAGCCACCA	667
Db	101888	TTCAAGCAATTCCT	GTGCTCAGCTCCCA	AGTAGTGGAGTATTA	CAGGACCCGCCACCA	101829
QY	668	CACCCAGCT--TT	TTTTTATTTTGA	GACAGAGTCTTG	CCCTGTCA	725
Db	101828	CGCCAGCTAATTT	TTTTTTTTTTTGA	TGAGAGTCTGCTGTCTC	ATCACC	101769
QY	726	AGTGCATGATATC	AGTTCAC	TGCAGACCTCC	ACCTCCGCGGTTCA	785
Db	101768	AGTGCATGATATC	CGGCTC	AC	TGCAGAGCTCCGCTCCGCGGTTGAC	101709
QY	786	TCAGTCTCTGAG	TAGTAGATTA	CAGAA	GTGCACCTTCA	843
Db	101708	TCAGCTCTGAGT	GTGAGTCA	CAGGCTGTCA	CACCAAGCCCGGCTAAT	101649
QY	844	TATTTTGA	TAGAGATGCGCTT	TTCGACATGTTGG	CGATGCTGTGA	903
Db	101648	TGTTTTTGA	TAGAGAGGAGTTT	CA	ATGTTAGCCAGATGTTCTCA	101589
QY	904	CAGGTGATCCGCT	TGCGCTTGCGCTCC	CAAA	AGTCTGGAGTTG	963
Db	101588	CAGGTGATCTGCT	GTGCTTGCGCTCC	CAAA	AGTCTGGAGTTG	101529
QY	964	CCAGGCTGAGCTA	977			
Db	101528	CCAGGCTGAGCTA	101515			

```

RESULT 12
US-10-741-601-5756/c
; Sequence 5756, Application US/10741601
; Publication No. US20040166519A1
; GENERAL INFORMATION:
; APPLICANT: CARCILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: SINDOSIS, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001500
; CURRENT APPLICATION NUMBER: US/10/741,601
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 26415
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 5756
; LENGTH: 16363
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-741-601-5756

```

Query Match 17.3%; Score 322.8; DB 8; Length 16963;

```

"Local Similarity 82.8%; Pred. No. 1.5e-85;
tches 394; Conservative 2; Mismatches 69; Indels 11; Gaps 2;

506 TTTTTCCTTTCTTTTCTTTTGAAGAGAGTCTGTCTGTGCGCCAGGCTGAGTG 565
7767 TTTTTCCTTTCTTTTCTTTTGAAGAGAGTCTGTCTGTGCGCCAGGCTGAGTG 7708
566 CAGTGGCATGATCTGCGCCACTGCAACCTCTGCTCCCGGATTCAGGCAATCTCTGC 625
7707 CAGTGGCATGATCTGCGCCACTGCAACCACTCTCCGGGTTCAAGCAAGTCTCTGC 7648
626 CTGAGCTCCCAAGTAGCTGGAGTTACAGGTGACGCGACCAACCCAGCTTTTATT 685
7647 CTGAGCTCCCAAGTAGCTGGAGTTACAGGTGACCAACCAACCCAGCTATTATT 7588
686 TTG-----GAGACAGAGTCTTGCCCTGTCAACCCAGGCTGAGTAGTGCATGAT 726
7587 TTGTTTGTGTTGAGACGAGTCTTGCTGTGTACGCCAGGCTGAGTAGTGCATGAT 7528
737 CTGAGTTCACTGGACCTCCACCTCCCGGGTTCAAGCAATTCCTGCTCACTCTCG 796
7527 CTGGGCTCACTGCACTCCGCTCCCGGGTTCAAGTAGTCTCTGCTCAAGCTCCCG 7468
797 AGTAGCTAGGATTAAGAAAGTGCACCTCCAGCTTCAAGTAA--TTTGTATTATTAGTA 854
7467 AGTAGCTAGGATTAAGAAAGTGCACCTCCAGCTTCAAGTAA--TTTGTATTATTAGTA 7408
855 GAGATGCGCTTTTGCATGTTGAGCAATGCTAGTGTGAACCCCGGACCTGAGTAGTCCG 914
7407 GAGACGAAGTTTACCAATGTTGAGCAAGCTGTTTCAATCTCTGACCTCAAGTAGTCTG 7348
915 CTGGCTTGGCTCCCAAGAGTGTGGATTCAGAGCGCTGAGCAATCCGCGCAGGCC 970
7347 CCGGCTCGGCTCCCAAGAGTGTGGATTCAGAGCGCTGAGCAATCCGCGCAGGCC 7292

1.7.13
0-741-600-17945/c
quence 17945, Application US/10741600
lication No. US20050026169A1
IPAL INFORMATION:
PLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
ILE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
LE REFERENCE: CL001499
URRENT APPLICATION NUMBER: US/10/741,600
URRENT FILING DATE: 2003-12-22
MBER OF SEQ ID NOS: 73997
PTWAB: FastSeq for Windows Version 4.0
Q ID NO 17945
LENGTH: 16963
YPE: DNA
ORGANISM: Homo sapiens
0-741-600-17945

"Match 17.3%; Score 322.8; DB 9; Length 16963;
"Local Similarity 82.8%; Pred. No. 1.5e-85;
tches 394; Conservative 2; Mismatches 69; Indels 11; Gaps 2;

506 TTTTTCCTTTCTTTTCTTTTGAAGAGAGTCTGTCTGTGCGCCAGGCTGAGTG 565
7767 TTTTTCCTTTCTTTTCTTTTGAAGAGAGTCTGTCTGTGCGCCAGGCTGAGTG 7708
566 CAGTGGCATGATCTGCGCCACTGCAACCTCTGCTCCCGGATTCAGGCAATCTCTGC 625
7707 CAGTGGCATGATCTGCGCCACTGCAACCACTCTCCGGGTTCAAGCAAGTCTCTGC 7648
626 CTGAGCTCCCAAGTAGCTGGAGTTACAGGTGACGCGACCAACCCAGCTTTTATT 685
7647 CTGAGCTCCCAAGTAGCTGGAGTTACAGGTGACCAACCAACCCAGCTATTATT 7588
686 TTG-----GAGACAGAGTCTTGCCCTGTCAACCCAGGCTGAGTAGTGCATGAT 736

```

```

Db 7587 TTGTTTGTGTTGAGACGAGTCTTGCTGTGTACGCCAGGCTGAGTAGTGCATGAT 7528
Qy 737 CTGAGTTCACTGGACCTCCACCTCCCGGGTTCAAGCAATTCCTGCTCACTCTCG 796
Db 7527 CTGGGCTCACTGCACTCCGCTCCCGGGTTCAAGTAGTCTCTGCTCAAGCTCCCG 7468
Qy 797 AGTAGCTAGGATTAAGAAAGTGCACCTCCAGCTTCAAGTAA--TTTGTATTATTAGTA 854
Db 7467 AGTAGCTAGGATTAAGAAAGTGCACCTCCAGCTTCAAGTAA--TTTGTATTATTAGTA 7408
Qy 855 GAGATGCGCTTTTGCATGTTGAGCAATGCTAGTGTGAACCCCGGACCTGAGTAGTCCG 914
Db 7407 GAGACGAAGTTTACCAATGTTGAGCAAGCTGTTTCAATCTCTGACCTCAAGTAGTCTG 7348
Qy 915 CTGGCTTGGCTCCCAAGAGTGTGGATTCAGAGCGCTGAGCAATCCGCGCAGGCC 970
Db 7347 CCGGCTCGGCTCCCAAGAGTGTGGATTCAGAGCGCTGAGCAATCCGCGCAGGCC 7292

RESULT 14
US-10-995-561-13467/c
; Sequence 13467, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13467
; LENGTH: 16963
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13467

Query Match 17.3%; Score 322.8; DB 10; Length 16963;
Best Local Similarity 82.8%; Pred. No. 1.5e-85;
Matches 394; Conservative 2; Mismatches 69; Indels 11; Gaps 2;

Qy 506 TTTTTCCTTTCTTTTCTTTTGAAGAGAGTCTGTCTGTGCGCCAGGCTGAGTG 565
Db 7767 TTTTTCCTTTCTTTTCTTTTGAAGAGAGTCTGTCTGTGCGCCAGGCTGAGTG 7708
Qy 566 CAGTGGCATGATCTGCGCCACTGCAACCTCTGCTCCCGGATTCAGGCAATTCCTGC 625
Db 7707 CAGTGGCATGATCTGCGCCACTGCAACCACTCTCCGGGTTCAAGCAAGTCTCTGC 7648
Qy 626 CTGAGCTCCCAAGTAGCTGGAGTTACAGGTGACGCGACCAACCCAGCTTTTATT 685
Db 7647 CTGAGCTCCCAAGTAGCTGGAGTTACAGGTGACCAACCAACCCAGCTATTATT 7588
Qy 686 TTG-----GAGACAGAGTCTTGCCCTGTCAACCCAGGCTGAGTAGTGCATGAT 736
Db 7587 TTGTTTGTGTTGAGACGAGTCTTGCTGTGTACGCCAGGCTGAGTAGTGCATGAT 7528
Qy 737 CTGAGTTCACTGGACCTCCACCTCCCGGGTTCAAGCAATTCCTGCTCACTCTCG 796
Db 7527 CTGGGCTCACTGCACTCCGCTCCCGGGTTCAAGTAGTCTCTGCTCAAGCTCCCG 7468
Qy 797 AGTAGCTAGGATTAAGAAAGTGCACCTCCAGCTTCAAGTAA--TTTGTATTATTAGTA 854
Db 7467 AGTAGCTAGGATTAAGAAAGTGCACCTCCAGCTTCAAGTAA--TTTGTATTATTAGTA 7408
Qy 855 GAGATGCGCTTTTGCATGTTGAGCAATGCTAGTGTGAACCCCGGACCTCAAGTAGTCCG 914
Db 7407 GAGACGAAGTTTACCAATGTTGAGCAAGCTGTTTCAATCTCTGACCTCAAGTAGTCTG 7348
Qy 915 CTGGCTTGGCTCCCAAGAGTGTGGATTCAGAGCGCTGAGCAATCCGCGCAGGCC 970

```





GenCore version 5.1.9  
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

nucleic - nucleic search, using sw model

on: June 21, 2006, 22:25:40 ; Search time 59 Seconds  
(without alignments)  
7598.058 Million cell updates/sec

US-10-502-279-26

net score: 1870

ance: 1 atcgtgtcctagaagatc.....catcccgagctctcgtag 1870

ing table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

ched: 296510 segs, 119862409 residues

number of hits satisfying chosen parameters: 593020

num DB seq length: 0

num DB seq length: 200000000

Processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

base : Published Applications NA\_New.\*  
1: /EMC\_Celerra\_SIDS3/Pcdata/1/pubpna/US09\_NEW\_PUB.seq.\*  
2: /EMC\_Celerra\_SIDS3/Pcdata/1/pubpna/US06\_NEW\_PUB.seq.\*  
3: /EMC\_Celerra\_SIDS3/Pcdata/1/pubpna/US07\_NEW\_PUB.seq.\*  
4: /EMC\_Celerra\_SIDS3/Pcdata/1/pubpna/US08\_NEW\_PUB.seq.\*  
5: /EMC\_Celerra\_SIDS3/Pcdata/1/pubpna/PCT\_NEW\_PUB.seq.\*  
6: /EMC\_Celerra\_SIDS3/Pcdata/1/pubpna/US10\_NEW\_PUB.seq.\*  
7: /EMC\_Celerra\_SIDS3/Pcdata/1/pubpna/US11\_NEW\_PUB.seq.\*  
8: /EMC\_Celerra\_SIDS3/Pcdata/1/pubpna/US60\_NEW\_PUB.seq.\*

# SUMMARIES

hit	Score	Match	Length	ID	Description
1	296.6	15.9	4407	6	US-10-196-749-351 Sequence 351, App
2	284.8	15.2	12963	6	US-10-517-441-68 Sequence 68, App
3	284.4	15.2	1237	6	US-10-511-937-430 Sequence 430, App
4	284.4	15.2	2549	7	US-11-293-697-1413 Sequence 1413, App
5	282.4	15.1	3329	7	US-11-293-697-1502 Sequence 1502, App
6	271	14.5	7432	6	US-10-517-441-2 Sequence 2, App
7	270.8	14.5	2837	7	US-11-293-697-2282 Sequence 2282, App
8	270.8	14.5	394191	6	US-10-506-549-3 Sequence 3, App
9	269.6	14.4	118899	6	US-11-189-279-64 Sequence 64, App
10	269	14.4	10865	6	US-10-517-441-109 Sequence 109, App
11	266.6	14.3	7432	6	US-10-517-441-2 Sequence 2, App
12	262.2	14.0	3495	7	US-11-293-697-463 Sequence 463, App
13	260.8	13.9	2284	7	US-11-293-697-2393 Sequence 2393, App
14	257.8	13.8	3174	7	US-11-293-697-116 Sequence 116, App
15	257	13.7	2425	6	US-10-517-441-94 Sequence 94, App
16	256.8	13.7	2033	7	US-11-293-697-2350 Sequence 2350, App
17	254.4	13.6	176373	7	US-11-175-714-87 Sequence 87, App
18	253.2	13.5	11029	6	US-10-517-441-29 Sequence 29, App
19	247.4	13.2	6521	6	US-10-517-441-32 Sequence 32, App
20	242.4	13.0	152331	7	US-11-175-714-86 Sequence 86, App
21	239.8	12.8	1740	7	US-11-293-697-1833 Sequence 1833, App
22	239.2	12.8	2327	7	US-11-293-697-1071 Sequence 1071, App
23	238.8	12.7	2133	7	US-11-293-697-468 Sequence 468, App
24	237.6	12.7	2730	7	US-11-293-697-250 Sequence 250, App
25	236.4	12.6	2638	7	US-11-293-697-55 Sequence 55, App

C	26	232.6	12.4	16125	7	US-11-236-238-1	Sequence 1, App
C	27	231	12.4	2676	7	US-11-293-697-125	Sequence 125, App
C	28	230.6	12.3	2690	7	US-11-293-697-682	Sequence 682, App
C	29	228.6	12.2	3097	7	US-11-293-697-1206	Sequence 1206, App
C	30	228	12.2	56580	6	US-10-553-298-1	Sequence 1, App
C	31	225.6	12.1	2532	7	US-11-293-697-360	Sequence 360, App
C	32	222.8	11.9	1801	7	US-11-293-697-1829	Sequence 1829, App
C	33	222.4	11.9	11899	7	US-11-189-279-64	Sequence 64, App
C	34	222.4	11.9	1601	7	US-11-328-161-25	Sequence 25, App
C	35	222.4	11.9	1645	7	US-11-328-161-12	Sequence 12, App
C	36	221.4	11.8	1629	6	US-10-511-937-444	Sequence 444, App
C	37	220.6	11.8	56580	6	US-10-553-298-1	Sequence 1, App
C	38	220.4	11.8	2860	7	US-11-293-697-25	Sequence 25, App
C	39	220.2	11.8	6101	6	US-10-517-441-93	Sequence 93, App
C	40	220.2	11.8	27684	6	US-10-105-871-4	Sequence 4, App
C	41	220	11.8	2024	7	US-11-293-697-304	Sequence 304, App
C	42	217.6	11.6	2836	7	US-11-293-697-30	Sequence 30, App
C	43	217.2	11.6	11029	6	US-10-517-441-29	Sequence 29, App
C	44	217.2	11.6	128361	6	US-10-505-928-151	Sequence 151, App
C	45	216.6	11.6	2072	7	US-11-293-697-1005	Sequence 1005, App

## ALIGNMENTS

RESULT 1  
US-10-196-749-351  
Sequence 351, Application US/10196749  
Publication No. US20060094864A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin P.  
APPLICANT: Chen, Jian  
APPLICANT: Desnoyers, Luc  
APPLICANT: Goddard, Audrey  
APPLICANT: Goddard, Paul J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Pan, James  
APPLICANT: Smith, Victoria  
APPLICANT: Watanabe, Colleen K.  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P3430R1C340  
CURRENT FILING DATE: 2002-07-16  
PRIOR APPLICATION NUMBER: 10/052586  
PRIOR FILING DATE: 2002-01-15  
PRIOR APPLICATION NUMBER: 60/059263  
PRIOR FILING DATE: 1997-09-18  
PRIOR APPLICATION NUMBER: 60/059266  
PRIOR FILING DATE: 1997-09-18  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/063120  
PRIOR FILING DATE: 1997-10-24  
PRIOR APPLICATION NUMBER: 60/063121  
PRIOR FILING DATE: 1997-10-24  
PRIOR APPLICATION NUMBER: 60/063486  
PRIOR FILING DATE: 1997-10-21  
PRIOR APPLICATION NUMBER: 60/063540  
PRIOR FILING DATE: 1997-10-28  
PRIOR APPLICATION NUMBER: 60/063541  
PRIOR FILING DATE: 1997-10-28  
PRIOR APPLICATION NUMBER: 60/063544  
PRIOR FILING DATE: 1997-10-28  
Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 612  
SEQ ID NO 351  
LENGTH: 4407  
TYPE: DNA  
ORGANISM: Homo Sapien  
US-10-196-749-351









Accession 109, Application US/10517441  
Application No. US20060121467A1

GENERAL INFORMATION:  
APPLICANT: POEKENS, John  
APPLICANT: HARBECK, Nadia  
APPLICANT: KOENIG, Thomas  
APPLICANT: MAIER, Sabine  
APPLICANT: MARTENS, John  
APPLICANT: MODEL, Fabian  
APPLICANT: NIMMICH, Inko  
APPLICANT: RUTAN, Tamas  
APPLICANT: SCHMITT, Armin  
APPLICANT: SCHMITT, Manfred  
APPLICANT: LOOK, Maxime P.  
APPLICANT: MARX, Almut  
APPLICANT: HOEFER, Heinz  
TITLE OF INVENTION: Method and nucleic acids for the improved treatment of breast cancer  
SITE OF INVENTION: proliferative disorders  
PCT REFERENCE: 46/75-93  
CURRENT APPLICATION NUMBER: US/10/517,441  
CURRENT FILING DATE: 2004-12-11  
PCT APPLICATION NUMBER: PCT/EP2003/010881  
FILING DATE: 2003-10-01  
APPLICATION NUMBER: DE 10317955.0  
FILING DATE: 2003-04-17  
APPLICATION NUMBER: DE 10300096.8  
FILING DATE: 2003-01-07  
APPLICATION NUMBER: DE 10245779.4  
FILING DATE: 2002-10-01  
NUMBER OF SEQ ID NOS: 2147  
ID NO 109  
LENGTH: 10865  
TYPE: DNA  
ORGANISM: Homo Sapiens  
LOCUS: 517-441-109

Sequence Match      14.4%; Score 269; DB 6; Length 10865;  
% Local Similarity 75.4%; Pred. No. 3.8e-34; Indels 13; Gaps 3;  
Matches 378; Conservative 0; Mismatches 110;

504 TTTTTCCTTTCTTTTTTTTGTGAGACAGATCTTGCTC-TGTGCCCGAGCTGGA 562  
6664 TTTAATTAAATTATTATTATTATTATTTTGGATGAGTTTCACTTATATGCCAGGCTAGA 6723  
563 GTGCAGTCGATGATCTTGCCCATGTCACAACCTTGTGCTCCCGGATTAAGGATTTCTC 622  
6724 GTGCATAGGGGTATCTCGGCTCATGCAACTGTGCTCCCGGTTCAAAGAAATTTCTC 6783  
623 TGCTCAGCTCCCAAGTAGCTGGATTACAGGTGACGCCACACACCAGC----- 675  
6784 TGCCTCAGCTTCGAGTAGCTGGATTACAGGCATGTGTCACACAGCTGGCTAATTTT 6843  
676 TTTTTCCTTTTGTGAGACAGAGTCTTGCCCTGTACCCAGGCTGAGTACAGTGCATGA 735  
6844 TTTTTCCTTTTGTGAGACAGAGTCTGTCTGTGCGCCAGGCTGAGTGCATGTCGAA 6903  
736 TCTCAGTTCATCTGCACTCTCCACCTCCCGGTTCAAGCAATTCTCTGCTCAGTCTCCT 795  
6904 TCTCGGCTCACTGCAAGCTTGTCTCTCCAGAGTTCACAGCAATCTCTCCGACTAGCTCCC 6963  
796 GAGTAGCTAGGATTAAGAGATGCACTTCACCTTCAGCTAAT-----TTTGTATTTT 850  
6964 AAGTAGCTGGAGATTAAGAGGCGCTGCGCACATCCGGTAATTTTGATTTTGTATTTT 7023  
851 AGTAGAGATCGCTTTTGCCATGTGGCCATGCTAATCTGGAACCCCGAGACTCAGGTGA 910  
7024 AGTAGAACGGGTTTCAACCGTGTGTGTCAGGTGTCTGCAATCTTCACCTCAGGTGA 7083  
911 TCCGCTGCGCTTGAGCCCTCCCAAGGTGCTGGAGTTGAGGCGTGAAGCCATCGGACGAGCC 970  
7084 TCTGCCCATCTTGCTCTCCCAAGGTGCTGGAGTTAAGGACATGAGCCATCTGTGCCGACC 7143  
971 TAGAGTACCTCTTAACTCTCT 991

```

RESULT 11
US-10-517-441-2
; Sequence 2, Application US/10517441
; Publication No. US20060121467A1
; GENERAL INFORMATION:
APPLICANT: FOEKENS, John
APPLICANT: HARBECK, Nadia
APPLICANT: KOENIG, Thomas
APPLICANT: MAIER, Sabine
APPLICANT: MARTENS, John
APPLICANT: MODEL, Fabian
APPLICANT: NIMMERICH, Inko
APPLICANT: RUFAN, Tamas
APPLICANT: SCHMITT, Armin
APPLICANT: SCHMITT, Manfred
APPLICANT: LOOK, Maxime P.
APPLICANT: MARX, Almut
APPLICANT: HOFERLER, Heinz
TITLE OF INVENTION: Method and nucleic acids for the improved treatment of breast cancer
TITLE OF INVENTION: proliferative disorders
FILE REFERENCE: 47675-93
CURRENT APPLICATION NUMBER: US/10/517,441
CURRENT FILING DATE: 2004-12-11
PRIOR APPLICATION NUMBER: PCT/EP2003/010881
PRIOR FILING DATE: 2003-10-01
PRIOR APPLICATION NUMBER: DE 10317955.0
PRIOR FILING DATE: 2003-04-17
PRIOR APPLICATION NUMBER: DE 10300096.8
PRIOR FILING DATE: 2003-01-07
PRIOR APPLICATION NUMBER: DE 10245779.4
PRIOR FILING DATE: 2002-10-01
NUMBER OF SEQ ID NOS: 2147
SEQ ID NO 2
LENGTH: 7432
TYPE: DNA
ORGANISM: Homo Sapiens
US-10-517-441-2

Query Match      14.3%; Score 266.6; DB 6; Length 7432;
Best Local Similarity 76.6%; Pred. No. 9.2e-34;
Matches 382; Conservative 0; Mismatches 104; Indels 13; Gaps 4;

QY      488   TGAGCTGCTGCTGCTTTTTTTTTCCTTTTCTTTTCTTTTGTGGAGACAGAGCTGTGCTC    547
DB      1695   TGTACGCTGCTGTTTGATGCATATGCATTTTTTTTTTTTTGTGAGAGGAGTCACTCT    1754

QY      548   GTGCCCGCAGGCTGGAGTGACAGTGCAT-----GATCTCTGSCCATGCAACTCTG    598
DB      1755   GTCACCCAGGCTGGAGTGACAGTGTATGCACAGTGTGCATCTTGCTCATCTGCATCCG    1814

QY      599   CCTCCCGGATTCAAGCGATTCTCCGTGCTCAGCCTCCCAAAGTAGCTGGATTACAGGTGC    658
DB      1815   CCAACCGGTTCAAGGAGATTCTCCTGCTCAGTCTTCAGAGTAATTGGGACTACAGACAC    1874

QY      659   ACGGCACCAACCAGCT-TTTTTTATTTTGGAGACAGAGTCTTGCCCTGACACCCAGGC    717
DB      1875   ACGGCACCATGCTCGGGCTATTTTTTTTTTTTGTGAACGAGAGTCTGCTCTGTACCCAGGC    1934

QY      718   TGAAGTACAGTGGATATCTCAGTTCATGCGACCTCCACCTCCCGGGTTCAAGCAATT    777
DB      1935   TGAAGTACAGTGGGCTATCTTGCTCATCTGCAACGTCGCGCTCCGGGGTTCAAGCAATT    1994

QY      778   CTCTGCTCATGTTCTCTGAGTAGCTAGATTACAAAGTGCACCTCCAGCTTCACTTAA    837
DB      1995   CTCCTGCTCATGCTCTCCCGAGTAGCTGGGACTAACAGAGGCCACCAACAGCCTCGCTTAA    2054

QY      838   -TTTTTGATTTTATAGTAGAGATGCGCTTTTGGCANGTGTGGCCATGTGATGCTGAACCC    896
DB      2055   TTTTGTGATTTTACTAGAGACGGGGTTTCGCCCTGTATGACCGAGATGCTTCCATATTC    2114

```





```

ID NO 116
LENGTH: 3174
TYPE: DNA
ORGANISM: Homo sapiens
-293-697-116

Pair Match          13.8%; Score 257.8; DB 7; Length 3174;
ic Local Similarity 72.8%; Pred.No.2.3e-32;
ches 375; Conservative 0; Mismatches 132; Indels 8; Gaps 3;

498 CTGCTTTTTCCTTTTTCTTTTTCTTTTTTGAGCAGAAGCTTGTCTGTGGCCACG 557
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1043 CTTCTCTCTCTCTTTTTTTTTTAATTTTTTGAGCAGAGTCTACTGTGCCACG 1102
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
558 CTGAGTGCAGTGCATGATCTCTGCCCACTGCACAATTCTGCTCCCGATTCAAGCAT 617
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1103 CTAAAGTCTAATGGTGCATTCACAGCTCACTGCAGCTTGACCTCCAGGCTCAAGAGT 1162
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
618 TCTCTGCTCAAGCTCTCCCAAGTAGCTGGGAATTACAGTGCACGCCAACACACC---A 673
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1163 CCTCTCACTTCAAGCTCCCAAGTAGCTGGGACTACAGACACATPACCAACATGCCCTCTA 1222
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
674 GCTTTTTTATTTTGGAGACAGAGTCTTGCCTGATCACCCAGGCTGAGATCAGTGCAT 723
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1223 ATTTTTCCTTTTTTTTGAAGCAGAGTCTGCTCTGTGCCCCAGGCTGAGAGCAGTGTGC 1282
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
734 GATCTCAAGTTCACATGCGACCTTCACCTCCCGGGTTTCAAGCAATTCCTGCTCAAGTTC 793
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1283 GATCTCGGCTCACTCAAGCTCTGCTTCCCGGGTTTATGCAATTCCTGCTCAAGCTCA 1342
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
794 CTGAGTACTAGATTAAGAGAGTGCACCTCCACGTTCAAGCTTAA--TTTGTATTTT 851
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1343 CCGAGTACTGGAGACTACAGGGTGCTGCCACCAATGCTGGCTTAAATTTTTTGTATCTT 1402
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
852 GTAGAGATCGCCTTTTGGCATGTTGGCCATGTCAGTCTGGAACCCCGAGCTCAGGTGAT 911
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1403 GTAAGAGAGGGGTTTCAACCGTGTGGCCAGATGCTGATCTCGAAGCT--TGAT 1460
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
912 CGGCTGCTTGGCCTCCCAAAGTGTGGGAATTGCAGGGGTGAGCCATCGCCGACGCT 971
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1461 CTGCGCGGCTGGGGCTCCCAAGTGTGGGAATTACAGGTGTGAGCACACAGCGCTGGCT 1520
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
972 GAGCTACCTCTTACTCTCTGGAAGACTGCGGCT 1006
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1521 AATTTTGTATTTTGTGAGAGATGAAGTCTGCT 1555
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

-517-441-94/c
quence 94, Application US/10517441
Application No. US20060121467A1
GENERAL INFORMATION:
PLICANT: FOKENS, John
PLICANT: HARBECK, Nadia
PLICANT: KOENIG, Thomas
PLICANT: MAIER, Sabine
PLICANT: MARTENS, John
PLICANT: MODEL, Fabian
PLICANT: NIMMICH, Inko
PLICANT: RUJAN, Yamas
PLICANT: SCHMITT, Armin
PLICANT: SCHMITT, Manfred
PLICANT: LOOK, Maxime P.
PLICANT: MARX, Almut
PLICANT: HOEFLER, Heinz
TITLE OF INVENTION: Method and nucleic acids for the improved treatment of breast cancer
FIELD OF INVENTION: proliferative disorders
CITE REFERENCE: 47675-93
CURRENT APPLICATION NUMBER: US/10/517,441
CURRENT FILING DATE: 2004-12-11
PRIOR APPLICATION NUMBER: PCT/EP2003/010881
FILER FILING DATE: 2003-10-01
INVENTOR APPLICATION NUMBER: DE 10317955.0

```

? PRIOR FILING DATE: 2003-04-17  
 ? PRIOR APPLICATION NUMBER: DE 10300096.8  
 ? PRIOR FILING DATE: 2003-01-07  
 ? PRIOR APPLICATION NUMBER: DE 10245779.4  
 ? PRIOR FILING DATE: 2002-10-01  
 ? NUMBER OF SEQ ID NOS: 2147  
 ? SEQ ID NO 94  
 ? LENGTH: 2425  
 ? TYPE: DNA  
 ? ORGANISM: Homo Sapiens  
 ? FEATURES:  
 ? NAME/KEY: unsure  
 ? LOCATION: (289, 833, 1773, 2369, 2374, 2386)  
 ? OTHER INFORMATION: unknown base  
 ? US-10-517-441-94

Query Match	13.7%;	Score 257;	DB 6;	Length 2425;
Best Local Similarity	75.5%;	Pred. No. 3,1e-32;		
Matches 367;	Conservative 0;	Mismatches 96;	Indels 23;	Gaps 3

OY	506	TTTTTTTTCTTTTCTTTTCTTTTGTGAGCAGAGTCTTGCTCTGTGGCCAGGCTGAGAGT	565
Db	635	TTTGGATACATGCCCTCTTTTGTGAGACAGTCTGCTCAGTCAACCGAGCTGAGAGT	576
OY	566	CAGTGGCATGATCTCTGCCCATGCAACCTGCTGCCGATTCGAAGCATTTCTCTGC	625
Db	575	CAGTGGCATGATCTCGCTCATCTGCACCTTCACTCCGGGTTCAAGTATTTCTCTGC	516
OY	626	CTCAGCCTCCCAAGTACGTGGGATTTACAGTGCACGCCACCAACCCAGC-----	675
Db	515	CTCAGCCTCCCAAGTACGTGGGATTTACAGGCACACTGTAGCTGTACTACATGCCCTGCT	456
OY	676	-----TTTTTTTATTTTGGAGACAGAGTCTTGCCCTGTGCACCCAGGCTGAGTACAG	727
Db	455	AATTTTCTTTTCTTTTCTTTTGTGAGACAGAGTCTGTATGCCACAGCTGGAAGTGCAG	396
OY	728	TGGCATGATCTCAGTTCACTGACGACCTGCACCTCCGGGTTCAAGCAATTCCTCTGCCTC	787
Db	395	TGGCGCATCTGGGCTCATCTGCACCTTTCTTCAGGGTTTCAGCCCATTTCTCCGGGCTC	336
OY	788	AGTCTCCTGAGTACGTAGATTTACAGAGTGCACCTCCACGTTCAAGCTAA---TTTTTGT	844
Db	335	AGCTCTCCGAGTACGTGGAGTACACTGCGCCGCAACCATGCCCCAGNCTAAATTTTTTGT	276
OY	845	ATTTTATAGAGATGCGCTTTGTGCATGTTGGCCATGCTAGTCTGAAACCCCGGACCTC	904
Db	275	ATTTTATAGAGATGAGGTTTCACTGTGTTTAGCCAGAGTGTCTTCCAACTCTTAACCTC	216
OY	905	AGGTGATCCGCTGGCTTTGAGCTTCCCAAAGTGCCTGGAATTGCAGGCGTGAAGCATCGCGC	964
Db	215	A--TGATCGGCCCCCTTGGCTCCCAAGTGCTGGTTTACAGGCAATGAGCCACTGCGCG	158
OY	965	CAGGCG 970	
Db	157	CTGGCG 152	

Search completed: June 21, 2006, 23:08:23  
Job time : 63 secs